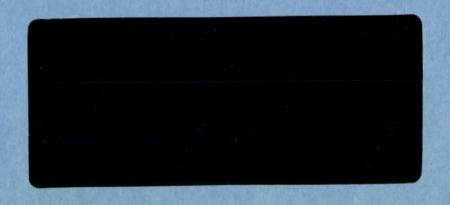
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Recreation Management

Arabeho & Recesevalt National Forests

# AN ANALYSIS TECHNIQUE FOR CAMPGROUND MANAGEMENT THROUGH LINEAR PROGRAMMING

by

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# ABSTRACT

Linear programming in an integer mode can be an effective mathematical technique for determining an optimum combination of a mix of campground management practices. The methodology draws upon work done in the evaluation of concessionaire operation of campgrounds on the Arapaho and Roosevelt National Forests. This, in addition to traditional full or reduced service management, a closure program, and charging user fees under the Land and Water Conservation Fund Act are modeled to provide an optimal value between costs of management and returns on fees collected.

# TABLE OF CONTENTS

	<u>.</u>	age
	List of Tables	iii
	Preface	iv
I.	Introduction and Statement of the Problem	1
II.	Review of Literature	5
III.	Procedures	13
IV.	Analysis of Data	30
٧.	Summary and Conclusions	35
	Bibliography	42
	Appendix	

# LIST OF TABLES

		Page
1.	Land and Water Conservation Fund Act Fee Campgrounds	. 16
2.	Non-Fee Campgrounds	. 17
3.	Campgrounds Meeting Closure Criteria	. 18
4.	Campgrounds Meeting Concessionaire Criteria	. 20
5.	Campgrounds Meeting Concessionaire Criteria After Developing Water Systems	21
6.	Analysis of Existing Concessionaire Campground Composite Opportunities	. 24
7.	Additional Concessionaire Campground Composites Generated by Developing Water	. 25
8.	Campground Management Practices	. 31
9.	Optimal Campground Management Practices	38

#### PREFACE

This research project conducted by the author from October 1981 through February 1982 on An Analysis Technique for Campground Management Through Linear Programming is being submitted for satisfaction of the requirements for Professional Development Program for Outdoor Recreation Management, Clemson University Short Course, Clemson, South Carolina.

The emphasis of this project is a recommendatory model for which a standardized software package be built. Data taken directly from RIM Facility Condition Records along with the recreation manager's constraints provided as input to this model can give him valuable assistance in making decisions for campground management.

I am greatly indebted to John Horn, Operations Research Analyst for the Rocky Mountain Region, who developed the program matrix and gave me considerable amounts of his time, knowledge, and assistance in completing this project.

# CHAPTER I

# INTRODUCTION AND STATEMENT OF THE PROBLEM

PROBLEM

Meeting developed camping recreation demands in an atmosphere of shrinking budgets is creating a new challenge to National Forest recreation managers. The array of full or reduced service management, closing some campgrounds, charging user fees in others, and considering some campgrounds for management by concessionaires; all with differing costs and returns poses a variety of management choices to the manager. Thus, it is essential for the recreation manager to be able to answer the question, "How to achieve the best mix of available campground management practices to reduce operating costs on all campgrounds and maximize user fee returns from charge campgrounds?"

Knowledge of campground management practices that provide optimal value between costs of management and returns on fees collected can help one with such matters as program development and budgeting and determining management strategies that conform to these budgets. This need led to a technique for the analysis of management combinations on the Arapaho and Roosevelt National Forests.

#### SETTING

The Forest contains over 1.4 million acres of short-grass prairie, montane forest, subalpine forest, and alpine tundra. The Arapaho and Roosevelt National Forests lie in northern Colorado with the Continental Divide and the Front Range of the Rocky Mountains forming the rugged backbone for most of the Forest's land base.

The Colorado Front Range is experiencing one of the nation's highest population rate increases, and its population centers parallel the length of the Forest. This population corridor contains slightly less than two million residents, which creates a tremendous demand for recreation on the Forest.

Recreation is perhaps the major use of the Arapaho and Roosevelt

National Forests. An estimated 5.8 million recreation visits in 1981

rank the Forest fifth in the National Forest System in total recreation use.

The Forest's 1,358 developed camp units provide approximately 881.1 thousand recreation visitor days use. Because most recreation use occurs on weekends in camp sites on this Forest, use generally exceeds design capacity on weekends and holidays. Weekday use is significantly below capacity except in popular sites in the Arapaho National Recreation Area.

The Forest has traditionally offered developed camping opportunities and resultant services free or at a cost set so low that only a very small part of administrative costs were recovered. Campground user fees were maintained at \$2.00 per camp unit per day from 1967 through 1980, a 14-year period. This attitude may be attributed to the belief that since the campgrounds are on public lands and were constructed through tax dollars that management costs must be subsidized.

Organizationally, the Forest Service has not encouraged private sector management of government owned campground facilities through provisions of the Granger-Thye Act of April 24, 1950. Forest Service Manual 2721.41 states, "Large well-developed campgrounds and picnic grounds may be operated on a charge basis by a permittee when this results in the best service to the public. However, policy is to discourage full permittee management."

These barriers to management options and culturally ingrained attitudes toward public subsidy of all recreation opportunities have limited the Forest's ability to manage campgrounds at optimum levels of costs and returns.

Management philosophies are currently undergoing change from one of large subsidy to that in which users of the campgrounds should help pay more of the direct costs of providing that service.

Recreation budgets are not high enough to meet all demands placed upon

the Forest's campgrounds. Funds are reduced from a year ago, and preliminary planning advice indicates even fewer dollars will be available for Fiscal Year 1983. These reductions are a result of the Administration's efforts to control public spending and eliminate Federal deficit.

In light of reducing budgets, current policy is being altered to accommodate users paying more of the cost for use of campgrounds and to encourage concessionaire management of government campground facilities.

To better analyze the campground management practices, the single purpose of this study was to develop a tool for providing an optimum mix of campground units being supplied at various costs and returns in fees.

# HYPOTHESIS

It is anticipated that a linear program in an integer mode can be used as a decisionmaking aid with an objective function to minimize cost and with a series of constraints that limit attainment of various decision variables.

# CHAPTER II

# REVIEW OF LITERATURE

Management of campgrounds by a variety of methods, each with differing costs, potential returns, investments in new facilities, and constrained by limited budgets compounds the decisionmaking activity requested of Forest recreation managers. This quick review of the problem statement, along with the hypothesis, indicates the need to focus the literature review in four subject areas. These are linear programs, fee systems, operating costs, and concessionaire management.

# LINEAR PROGRAMS

Analysis of multi-faceted problems contains more variables than an individual is readily capable of solving without the aid of sophisticated mathematical techniques. Linear programming is a powerful mathematical tool that can be used to analyze variables in terms of providing optimal values of the objective function, subject to certain constraints.

Linear programming was first used in the early 1960's to allocate

National Forest resources on the Ruidoso Ranger District (now the Smokey

Bear District of the Lincoln National Forest) Gray and Anderson (1964).

Though these first efforts were primitive by today's standards, the

applicability of using linear programs for analysis of resource allocation was evident.

Recent emphasis in the use of linear program models has been in Forest planning activities for multiple use allocation of resources and for forest regulation and scheduling of timber harvest. Several of the better known models are FORPLAN (FORest PLAN), a resource allocation model using a matrix generator with a report writer, and MUSYC (Multiple Use Sustained Yield Calculation), a timber model also using a matrix generator and report writer. A somewhat older program, TIMBRAM (TIMBer Resource Allocation Model), used for forest regulation and harvest scheduling, was described by Navou (N.D.).

Linear programs have a number of recreation management applications and have been used successfully to analyze problems all the way from rationing capacity as a means to relieve congestion to models analyzing potential of adding additional facilities. Price (1981) described an analysis of whether designating additional facilities relieved congested conditions or merely created and attracted extra demand. Saitta and Schmedemann (1972) detailed a linear programming model that portrayed the number of additional facilities that could be built under varying budgets of capital investments and maintenance costs.

# FEE SYSTEM

A strong case has been presented for charging user fees in campgrounds and for other recreation activities where special facilities have been provided. Memmel (1966) suggested that fees should be charged to participants that are engaged in activities which involve exclusive use of facilities or which require construction of specialized equipment. However, philosophical questions come up when the discussion turns to services and facilities that have been provided by government agencies. This is particularly true when these facilities have been traditionally offered free of charge or at prices set so low that the recreation opportunity is almost totally subsidized.

There are two related trends that indicate the future of user fee policies. First, tax dollars are limited, and this results in smaller recreation budgets. And second, participants should support the cost of their activities rather than all taxpayers. USDI Heritage Conservation and Recreation Service (1979). Solbroa, Miller, and Buenther (1956) recommended that fees be charged for recreation activities but should not be set so high as to be restrictive. Neither did they suggest that fees provide for a self-supporting program. Gibbs (1980) concluded that campgrounds in Region 6 were not profitable now, but changing policies and management practices might alter the situation.

The Forest Service is authorized to charge user fees by the Land and Water Conservation Fund Act of 1965. Section 4(b) of the Act

establishes designation criteria that campgrounds must meet in order to qualify as a fee site. Those criteria are "...tent or trailer spaces, drinking water, access road, refuse containers, toilet facilities, personal collection of the fee by an employee or agent of the Federal agency operating the facility, reasonable visitor protection, and simple devices for containing a campfire..."

Forest Service implementation of the recreation user fee program at campgrounds adheres to guidelines which state sites must meet the designation criteria, ensures that comparable fees are charged, information campaigns will be conducted to encourage voluntary compliance, compliance will be checked against occupied or unoccupied units, and self-service methods will be used in collecting fees.

In establishing rates for campground user fees, Forest Service Manual 2331.24d indicates that it is not intended to recover total program costs but allow the visitor to share in the cost of operation and maintenance of the site. MacCleery (1981) amplified this direction by stating that users should pay more of the direct costs and fees should be expanded to cover some of the replacement costs of the facility. Specific direction in the developed recreation element for the Fiscal Year 1983 Program Budget calls for setting fees to recover 80 percent of the operating cost at those sites (Rupp 10/20/81).

Recreation user fees are becoming an important consideration in regard to budgets. Crowell (1981) stated that Forest Service recreation

budgets may be reduced because the system operates at a net loss. Rupp (11/17/81) pronounced a Regional policy where recreation fund allocations will be distributed in amounts equal to L&WCF collections. This action has the potential of increasing some Forests' allocations and decreasing others.

# OPERATING COSTS

Gibbs and van Hees (1980) studied average operation and maintenance costs in 111 campgrounds in Region 6. Costs they portrayed, updated to 1981, for experience levels 3 and 4, conform closely with costs shown in block B of Form 2300-6 RIM Facility Condition Record for administration and cleanup costs for campgrounds in reduced and full service levels on this Forest.

#### CONCESSIONAIRE MANAGEMENT

Concessionaire operation of campgrounds as a management alternative is being considered as an integral part of the process being studied.

Concessionaire operation of government owned facilities is authorized by the Granger-Thye Act of 1950. Section 7 of this Act is specific to this authorization as follows:

"Sec. 7. The Secretary of Agriculture, under such regulations as he may prescribe and at rates and for periods

not exceeding thirty years as determined by him, is hereby authorized to permit the use by public and private agencies, corporations, firms, associations, or individuals, of structures or improvements under the administrative control of the Forest Service and land used in connection therewith:

Provided, That as all or a part of the consideration for permits issued under this section, the Secretary may require the permittees at their expense to recondition and maintain the structures and land to a satisfactory standard. (16 U.S.C. 580d)"

The Forest Service has not readily encourage permittee operation of Federally owned campground facilities through the provisions of the Granger-Thye Act. Forest Service Manual 2721.41 indicates they may be operated through the provisions of this act but discourages full permittee management. Gray (1954) favored operation of facilities with park personnel rather than leasing them out for concessionaire management. His opinion is based upon the experience of working with concessionaires who did not have the same feeling of obligation for service to the visiting public as agency employees did. Smith (1964) suggests that there is a place for concessionaire operations if the primary reason is to get special experience and training that a concessionaire can bring to the operation. He also noted that concession operations might be a very expensive way to buy administration. It would appear that there is only reluctant agreement for concessionaire management of public facilities.

Pederson (1981) portrayed a process to analyze the potential for concessionaire operation of campgrounds on the Deschutes National Forest in Oregon. His analysis revealed that 22 campgrounds grouped into five composites appeared to be potentially profitable as concession operations. The composites were formed to create large enough number of individual camp units to affect profitability. He suggests 100 units as the minimum size of operation. Lund (1981) summarized the findings of seven other studies pertaining to the optimum size of campgrounds. All studies except one recommended campgrounds larger than 100 units.

# CHAPTER III

# **PROCEDURES**

# DECISION VARIABLES

All campgrounds on the Arapaho and Roosevelt National Forests were included in the assessment to determine the best mix of management practices to provide the optimal value between management costs and fee returns.

The decision variables for the linear program model are the campground management practices being analyzed. The six alternative practices are:

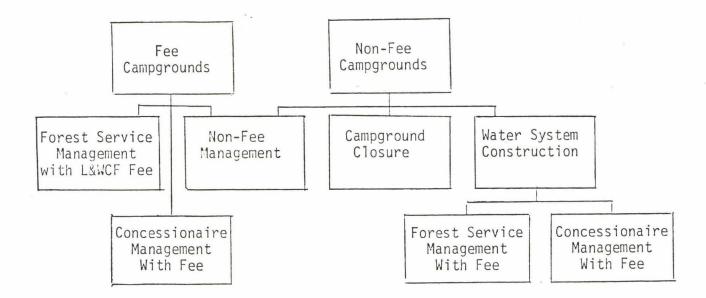
- Forest Service Management with an L&WCF User Fee. This
  practice includes campgrounds that meet L&WCF designation
  criteria. These campgrounds are operated and maintained to
  the full service level of management for the period of time
  that fees are collected.
- 2. Concessionaire Operation with a User Fee. This category includes campgrounds that meet L&WCF designation criteria, having about 100 camp units, or campgrounds that can be grouped by proximity to have a total of about 100 units or more.

- 3. Campground Closure. This alternative includes campgrounds that are presently non-fee sites, have eight camp units or less, or are used less than 20 percent of theoretical capacity. (Theoretical capacity is defined as the number of camp units x 5 people x number of days in the managed season.)
- 4. Non-Fee Campgrounds with Forest Service Management. This practice includes all campgrounds that do not meet the designation criteria for L&WCF fee sites. These campgrounds are operated at the reduced service level of management.
- 5. Forest Service Management as a Fee Campground Following Water System Construction. This group would involve capital investment for a water system so that it would meet designation criteria for a fee site. The campground would then by managed at the full service level.
- 6. Concessionaire Operation Following Water System Construction.

  This category includes composites of campgrounds that have 100 camp units or more, meets designation criteria for a fee site by having water systems constructed, and is operated under permit by a concessionaire.

# CAMPGROUND STRATIFICATION

The decision variables were used to group the campgrounds. This aggregation can be diagrammatically represented as follows:



There are a total of 56 campgrounds on the Arapaho and Roosevelt

National Forests that are being stratified for analysis. Of this total,

21 campgrounds, which represent 63 percent of the Forest's capacity, are

presently in a fee-site category. The fee campgrounds are shown in

Table 1. The remaining 35 campgrounds are presently non-fee campgrounds

and are listed in Table 2.

Eighteen campgrounds meet the criteria for closure (see Table 3). All but two of the campgrounds are placed in this category based on size

 $\begin{tabular}{ll} TABLE 1 \\ Land and Water Conservation Fund Act Fee Campgrounds \\ \end{tabular}$ 

Campground Name	Number of Units	Fee
Pawnee	69	\$5
Kelly Dahl	47	\$5
Olive Ridge	56	\$5
Mizpah	11	\$4
West Chicago Creek	15	\$4
Cold Springs	65	\$5
Echo Lake	17	\$4
Columbine	24	\$4
Mountain Park	55	\$5
Ansel Watrous	19	\$5
Sleeping Elephant	15	\$4
Kelly Flats	23	\$5
Crow Valley	5	\$4
Dowdy Lake South Shore	31	\$5
West Lake	29	\$5
Bellaire Lake	13	\$5
Dowdy Lake West Shore	24	\$5
Arapaho Bay	77	\$5
Willow Creek	35	\$5
Green Ridge	83	\$6
Stillwater	145	\$6
Total Units	858	

TABLE 2
Non-Fee Campgrounds

Campground Name	Number of Units
Rainbow Lakes Camp Dick Peaceful Valley	18 34 21
Guanella Pass Clear Lake Tom Bennett Mishawaka Stove Prairie Landing Upper Landing Narrows Coop Eggars Indian Meadows Big Bend Tunnel Buckhorn Canyon Stevens Gulch	9 8 7 3 7 6 12 4 3 12 4 12 4
Chambers Lake Browns Park Skyline Tunnel Big South Creedmore Lake North Fork Poudre Long Draw Grand View Aspen Glen	57 28 8 49 4 10 9 25 6
Meadow Creek Tabernash Byers Creek Idlewild Robbers Roost St. Louis Creek Denver Creek Sawmill Gulch Cutthroat Bay	5 20 6 24 9 18 22 5
Total Units	500

TABLE 3
Campgrounds Meeting Closure Criteria\*

Campground Name	Number of Units
Clear Lake	8
Tom Bennett Mishawaka Stove Prairie Landing Upper Landing Narrows Coop Eggars Indian Meadows Tunnel Stevens Gulch	7 3 7 6 12 4 3 4 7
Skyline Big South Grandview Aspen Glen	8 4 6 8
Meadow Creek Tabernash Byers Creek Sawmill Gulch	5 20 6 5
Total Units	123

<sup>\*</sup> Closure Criteria--(1) presently a non-fee site, (2) equal to or less than eight units, (3) use equal to or less than 20 percent of theoretical capacity.

rather than a function of use. These 18 campgrounds represent only 9 percent of the Forest's people-at-one-time capacity.

The last stratification of campgrounds is that which meets the criteria for concessionaire operation. Thirteen campgrounds grouped into five composites result from application of these criteria (see Table 4). This aggregation accounts for 48 percent of the Forest's total camping capacity, or 75 percent of present fee-site capacity. Campgrounds that would qualify as concessionaire operated sites following construction of water systems are shown in Table 5. These five campgrounds are grouped into three composites providing an additional 181 camping units considered for operation under a Granger-Thye permit. It is important to note that one campground that is presently a fee site, but not in the original grouping meeting concessionaire criteria, is added to make up the first composite on Table 5. Also, Stillwater Campground, one meeting criteria on Table 4, is added to Cutthroat Bay Campground to form a composite.

# COSTS

Costs are one of the key elements upon which decisions are being based.

Two categories of costs are portrayed to interact with the modeled decision variables. Annual costs include operation and maintenance of campgrounds, with differing costs for fee and non-fee sites, and costs for administration of Granger-Thye permits on concessionaire operated campgrounds. One-time costs include capital investments in water system

TABLE 4
CAMPGROUNDS MEETING CONCESSIONAIRE CRITERIA\*

# Number of Units

Campground Name	By Campground	By Composite
Kelly Dahl Cold Springs	47 65	112
Mountain Park Ansel Watrous Kelly Flats	55 19 23	97
Dowdy Lake South Shore Dowdy Lake West Shore West Lake Bellaire Lake	31 24 29 13	97
Arapaho Bay Willow Creek Green Ridge	77 35 83	195
Stillwater	145	145
Total Units		646

<sup>\*</sup> Concessionaire Criteria--A campground or campgrounds grouped by proximity that have about 100 camp units or more.

TABLE 5

CAMPGROUNDS MEETING CONCESSIONAIRE CRITERIA
AFTER DEVELOPING WATER SYSTEMS

# Number of Units

Campground	By Camparound	By Composite
Camp Dick Peaceful Valley Olive Ridge **	34 21 56	111
Chambers Lake Tunnel	57 49	106
Cutthroat Bay Stillwater **	20 145	165

<sup>\*\*</sup> Campgrounds with existing water systems added to make an economic composite.

construction, campground rehabilitation costs, and cost of closing sites (see Appendix I).

Operation and maintenance costs can be derived from blocks B and C of RIM Facility Condition Record, Form 2300-6. Administration and cleanup costs from block B are added to maintenance needs in condition classes 1 and 2 from block C (see Appendix II). These costs were compared with those found by Gibbs and Van Hees (1980) in their study of campgrounds in Region 6. Administration and cleanup costs were within acceptable limits from this study and those derived for the Fiscal Year 1984 Program Budget.

Permit administration costs were estimates derived by analyzing the amount of time needed to accomplish the various tasks identified with special use permits.

One-time costs for water system construction were taken from engineering estimates. These estimates can be used to update the appropriate condition class from 3 through 7 on the RIM Facility Condition Record. Rehabilitation costs were the summation of condition classes 3 through 8 and resource treatment costs from block B. Closure costs were engineering estimates for contract removal of recreation facilities and site restoration.

#### FEES

Land and Water Conservation Fund user fee returns are based upon experienced occupancy rates of 60 percent with compliance at 70 percent for the 21 fee campgrounds. This ratio is extended for potential fee sites should they undergo water system construction.

Campground composites were analyzed for potentially profitable concessionaire operations following procedures outlined by Pederson (1981). Table 6 summarizes income, Granger-Thye and land use fee, and anticipated operating income for five composites that are currently available for concessionaire operation. Table 7 illustrates data for three composites that could become concession operations following construction of water systems. Unlike the conclusion reached by Pederson, it appears that the Granger-Thye fee presents a significantly high cost that affects profitability of all but the Arapaho Bay-Willow Creek-Green Ridge composite and the Stillwater composite.

#### MODEL CONSTRAINTS

An important part of shaping the mix of campground management practices is determining a set of limiting boundaries. These boundaries are the constraints that form another set of objectives that defines one decision variable from another. In the calculation of costs and returns by the linear program model, the constraints are used to identify the practice to be applied for each campground.

TABLE 6

ANALYSIS OF EXISTING CONCESSIONAIRE CAMPGROUND COMPOSITE OPPORTUNITIES

Campgrounds	Number Units	Days in Fee Season	Fee	Gross Income	Facility Value	6%G-T Fee	4½% Land Fee	Total Fees	Operating Income
Kelly Dahl Cold Springs	47 65 112	119 119	5 5	\$16,220 22,430 \$38,650	\$174,276 241,020	\$10,456 14,461 \$24,917	\$730 1,009 \$1,739	\$11,186 15,470 \$26,656	\$11,994
Mountain Park Ansel Watrous Kelly Flats	55 19 23 97	134 134 134	5 5 5	\$21,370 7,380 8,940 \$37,690	203,940 70,452 85,284	\$12,236 4,227 5,117 \$21,580	\$ 961 332 402 \$1,695	\$13,197 4,559 5,519 \$23,275	\$14,415
Dowdy Lake South Shore Dowdy Lake West Shore West Lake Bellaire Lake	31 24 29 <u>13</u> 97	119 119 119 119	5 5 5 5	\$10,700 8,280 10,010 4,485 \$33,475	114,948 88,992 107,532 48,204	\$ 6,897 5,339 6,451 2,892 \$21,579	\$ 481 373 450 202 \$1,506	\$ 7,378 5,712 6,901 3,094 \$23,085	\$10 <b>,</b> 390
Arapaho Bay Willow Creek Green Ridge	77 35 83 195	119 119 119	5 5 6	\$26,570 12,080 38,520 \$77,170	285,516 129,780 307,764	\$17,131 7,787 18,466 \$43,384	\$1,196 544 1,733 \$3,473	\$18,327 8,331 20,199 \$46,857	\$30,313
Stillwater	145	119	6	\$60,050	537,660	\$32,260	\$2,702	\$34,962	\$25,088

TABLE 7

ADDITIONAL CONCESSIONAIRE CAMPGROUND COMPOSITES GENERATED BY DEVELOPING WATER

Campgrounds	Number Units	Days in Fee Season	Fee	Gross Income	Facility Value	6%G-T Fee	4½% Land <u>Fee</u>	Total Fees	Operating Income
Camp Dick Peaceful Valley Olive Ridge *	34 21 <u>56</u> 111	119 119 119	5 5 5	\$11,730 7,250 19,325 \$38,305	\$126,072 77,868 207,648	\$ 7,564 4,672 12,459 \$24,695	\$528 326 870 \$1,724	\$8,092 4,998 13,329 \$26,419	\$11,886
Chambers Lake Tunnel	57 49 106	119 119	5 5	\$19,670 16,910 \$36,580	211,356 181,692	\$12,681 10,902 \$23,583	\$ 885 761 \$1,646	\$13,566 11,663 \$25,229	\$11,351
Cutthroat Bay Stillwater *	20 145 165	119 119	5 6	\$ 6,902 60,050 \$66,952	74,160 537,660	\$ 4,450 32,260 \$36,710	\$ 311 2,702 \$3,013	\$ 4,761 34,962 \$39,723	\$27,229

<sup>\*</sup> Campgrounds with existing water systems added to make an economic composite.

The constraints and rationale are as follows:

1. The model is to express outputs in the integer mode.

This model was purposefully built to determine the optimum value for the objective function for all campgrounds with each individual campground represented as a whole. This is mathematically represented as an integer rather than a fraction.

2. The model is divided into ten 5-year time periods.

Though this model is considered for short-term management advice to deal with annual work planning and program budgets, it is necessary to lengthen the decision horizon to 50 years so that capital investments in water systems become viable.

 Water system construction is discounted over the 50-year period at 4 percent.

This allows capitalization of the investment in water systems considered for potential construction.

4. The budget is limited to \$478,551.

This amount conforms to preliminary advice developed for the

Fiscal Year 1983 budget.

 Campgrounds can change from one management practice to another only once.

This action was taken to simplify the model.

 Closure of any or all of the 18 campgrounds identified for this action can be accomplished immediately.

It is assumed to be prudent management to cut losses immediately by divestiture of small, uneconomically manageable campgrounds.

- 7. Three alternative time frames to accomplish rehabilitation of facilities were considered.
  - a. Twenty years as the optimum life of campground improvements.
  - b. Twenty-five years as the maximum useful life of facilities.
  - c. Thirty years represents the period after which improvements can no longer be used.

- 8. Rehabilitation costs will not be incurred for campgrounds considered for closure.
- Composites formed of two or more campgrounds must be considered as a single integer.

Composites lose their income potential if all campgrounds composing them are not included.

10. Concessionaire management can be implemented on only two composites in the first time period. The two composites are the Arapaho Bay-Willow Creek-Green Ridge with a total of 195 units and the Stillwater as the second with 145 units.

These are the two composites that appear to be profitable, under current Granger-Thye Act constraints.

11. The remaining composites may be implemented during time periods 2 through 10.

The constraint is based on the assumption that there will be a legislative initiative to change the 6 percent fee in the Granger-Thye Act.

12. Water systems must be constructed in all campgrounds forming a composite before it can be considered for concessionaire

operation.

All of the campgrounds in a composite must meet designation criteria for a fee site.

13. Olive Ridge Campground must be added to Camp Dick and Peaceful Valley to form a composite.

Composites lose their income potential if all campgrounds composing them are not included.

14. Cutthroat Bay must be added with Stillwater Campground to form a composite.

This follows the same rationale as above.

# CHAPTER IV

### ANALYSIS OF DATA

A solution to management alternatives for 56 campgrounds on the Arapaho and Roosevelt National Forests was offered by the linear program matrix in FORPLAN. The mix of practices portrayed was to manage 14 campgrounds by concessionaire operation, close 18 sites, manage 15 non-fee campgrounds, construct water systems in 4 campgrounds and operate them as L&WCF fee sites, and to construct water systems in all 5 campgrounds identified for potential concessionaire operation as shown in Table 7, page 24.

Constrained budgets affect the scheduling of management practices over time, resulting in interim management during the first time period. Interim campground management calls for concessionaire operation of 5 campgrounds, 10 campgrounds managed as L&WCF fee sites, closing 14 sites, and managing 27 as non-fee campgrounds. In time period 2, 5 years hence, the remaining actions are taken to achieve terminal solution. Management practices, interim management, and time period of implementation for all campgrounds are shown on Table 8.

Allocation of the practice to construct water systems in four campgrounds during the second time period rather than reintroducing a fee system in former fee sites appears inconsistent. However, the

TABLE 8

Campground Management Practices

Campagagund Nama	Current Management	Recommended Management	Time Period	Interim
Campground Name	<u>Practice</u>	_Practice_	Implemented	Management
Stillwater	FS fee	Concession	1	
Cutthroat Bay	FS non-fee	Add water concession	1	
Arapaho Bay	FS fee	Concession	1.	
Willow Creek	FS fee	Concession	1	2
Green Ridge	FS fee	Concession	1	
Kelly Dahl	FS fee	Concession	2	FS fee
Cold Springs	FS fee	Concession	2	FS fee
Mountain Park	FS fee	Concession	2	FS fee
Ansel Watrous	FS fee	Concession	2	FS fee
Kelly Flats	FS fee	Concession	2	FS fee
Dowdy Lake South	FS fee	Concession	2	FS fee
West Lake	FS fee	Concession	2	FS fee
Bellaire Lake	FS fee	Concession	2	FS fee
Dowdy Lake West	FS fee	Concession	2	FS fee
Olive Ridge	FS fee	Concession	2	FS fee
Camp Dick	FS non-fee	Add water concession	2	FS non-fee
Peaceful Valley	FS non-fee	Add water concession	2	FS non-fee
Tunnel (R.F.)	FS non-fee	Add water concession	2	FS non-fee
Chambers Lake	FS non-fee	Add water concession	2	FS non-fee
Narrows Coop	FS non-fee	Close	1	
Tom Bennett	FS non-fee	Close	1	
Clear Lake	FS non-fee	Close	1	
Skyline	FS non-fee	Close	1	
Eggars	FS non-fee	Close	1	
Upper Landing	FS non-fee	Close	1	

Table 8 (continued)

Campground Name	Current Management Practice	Recommended Management Practice	Time Period Implemented	Interim Management
Stove Prairie Landing	FS non-fee	Close	1	
Tunnel (E.P.)	FS non-fee	Close	1	
Stevens Gulch	FS non-fee	Close	1	
Big South	FS non-fee	Close	1	
Byers	FS non-fee	Close	1	
Meadow Creek	FS non-fee	Close	1	
Aspen Glen	FS non-fee	Close	1	
Grand View	FS non-fee	Close	1	
Sawmill Gulch	FS non-fee	Close	2	FS non-fee
Tabernash	FS non-fee	Close	2	FS non-fee
Mishawaka	FS non-fee	Close	2	FS non-fee
Indian Meadows	FS non-fee	Close	2	FS non-fee
Idlewild	FS non-fee	FS non-fee	1	
Robbers Roost	FS non-fee	FS non-fee	1	
St. Louis Creek	FS non-fee	FS non-fee	1	
Denver Creek	FS non-fee	FS non-fee	1	
Creedmore Lake	FS non-fee	Add water FS fee	2	FS non-fee
North Fork Poudre	FS non-fee	FS non-fee	1	
Long Draw	FS non-fee	Add water FS fee	2	FS non-fee
Big Bend	FS non-fee	Add water FS fee	2	FS non-fee
Buckhorn Canyon	FS non-fee	FS non-fee	1	
Browns Park	FS non-fee	Add water FS fee	2	FS non-fee
Rainbow Lakes	FS non-fee	FS non-fee	1	
Guanella Pass	FS non-fee	FS non-fee	1	
Pawnee	FS fee	FS non-fee	1	
Mizpah	FS fee	FS non-fee	1	
West Chicago Creek	FS fee	FS non-fee	1	
Echo Lake	FS fee	FS non-fee	1	
Columbine	FS fee	FS non-fee	1	
Sleeping Elephant	FS fee	FS non-fee	1	
Crow Valley	FS fee	FS non-fee	1	

reader is reminded of the model constraint that limits campgrounds changing from one prescription to another only once. Managerial decisions would be made in these cases and extra budget in time period 2 would be used to reinstate fee systems to campgrounds that were formerly managed under this practice.

Total costs derived for each of the three rehabilitation schedules exceeded the constrained budget in the first time period. The annual budget violation ranged from \$105,859 for the 20-year to \$69,003 at the 30-year schedule.

Because of the budget violation, a second iteration of the program was developed which eliminated all rehabilitation during the first time period. This solution offered a little different mix of campground closures and several more sites managed as Forest Service fee sites as compared to practices shown in Table 8. The specific changes are to close Tabernash, Mishawaka, and Indian Meadows campgrounds in time period 1 rather than in 2 and manage Sleeping Elephant and Crow Valley as fee sites. The program went out of integer mode for West Chicago Creek Campground and allocated two-thirds to a fee site and one-third to non-fee management (see Appendix III). Another managerial decision would conclude that West Chicago Creek could be managed as a non-fee site for the first 2 years and a fee campground for the last 3 years of the first time period.

This solution lies within budget constraints but caution must be

expressed against continually deferring rehabilitation work in campgrounds. There were 28 toilets constructed in the mid-1960's which utilized steel vaults. These vaults are now starting to leak and need replacement. Many of the older water systems are subject to imminent failure. Should this happen, the site would no longer qualify for concessionaire operation or meet L&WCF designation criteria. This process presents a clear picture that budgets are not large enough to afford prudent replacement of capital investments. At some time in the future, widespread facility failure and obsolescence will inevitably occur.

#### CHAPTER V

#### SUMMARY AND CONCLUSIONS

Smaller budgets and continued inflation, along with a variety of campground management practices, each with its own costs and potential returns, poses a challenge to recreation managers. They must be able to answer the question of how to achieve the optimum mix of campground management practices at the least annual net cost.

One way to approach these multi-faceted problems is with linear programming. A mathematical model can be constrained in an integer mode to provide optimal solutions for campground management where the objective function is to minimize annual net cost.

#### SUMMARY OF PROCEDURES

There were six alternative management practices that were examined in this study. These practices were composed of traditional Forest Service management as fee or non-fee sites, concessionaire operation, and a closure program. The remaining two options involved construction of water systems and then managed as either a Forest Service fee site or operated by a concessionaire.

Campgrounds were stratified according to specific criteria. The

stratification placed 21 campgrounds in the L&WCF fee site group.

Fourteen campgrounds in this category also qualify as potential concessionaire sites. There are 35 campgrounds that are listed as meeting the non-fee site grouping. Of this, 18 may be closed and an additional 5 campgrounds considered for concessionaire operation following water system construction. The remaining 12 campgrounds may be managed as non-fee sites or undergo water system construction and become L&WCF fee sites.

Costs are one of the primary elements upon which decisions are based. These values can be taken from RIM records for operation and maintenance, rehabilitation, and water system construction. Estimates were derived for administration of Granger-Thye permits and closure costs taken from engineering estimates.

Potential fee returns are based on L&WCF user fees and potential returns from concessionaire permits under the Granger-Thye Act. User fee returns are based upon past occupancy and compliance rates from the 21 fee sites on the Forest. Granger-Thye permit fees are based upon 6 percent of the value of campground facilities and  $4\frac{1}{2}$  percent land use fee.

Finally, a series of constraints were developed to provide limits to the model so that one decision variable is identified over another in the solution.

#### CONCLUSION

Based upon the findings of this study, linear programming can be a valuable tool for analyzing multiple problems in recreation management. The conclusion presented for 56 campgrounds on the Arapaho and Roosevelt National Forests was to manage 14 campgrounds by concessionaire operation, close 18 sites, manage 12 non-fee campgrounds, operate 7 campgrounds as L&WCF fee sites, and construct water systems in 5 campgrounds identified for potential concessionaire operation. Table 9 illustrates the optimal management practices, interim management, and time period of implementation.

#### **IMPLICATIONS**

There were several observations made during the course of this study that were subsidiary to the purpose but are important in future management of campgrounds. They can be categorized in three general subject areas: (1) direct management, (2) legislative initiatives, and (3) implications on Forest Land Use Plan direction.

Direct management actions include increasing the length of fee season to that shown as the recommended season for each campground in Appendix I. This generally focuses upon a 119-day period between May 20 and September 15. Assuming the average occupancy and compliance date remained the same as in 1981, revenue would increase from \$192,262 to \$236,580. Gates need to be installed on all fee sites and closed when a

TABLE 9
Optimal Campground Management Practices

Campground Name	Current Management Practice	Recommended Management Practice	Time Period Implemented	Interim Management
Stillwater	FS fee	Concession	1	
Cutthroat Bay	FS non-fee	Add water concession	1	
Arapaho Bay	FS fee	Concession	1	
Willow Creek	FS fee	Concession	1	
Green Ridge	FS fee	Concession	1	
Kelly Dahl	FS fee	Concession	2	FS fee
Cold Springs	FS fee	Concession	2	FS fee
Mountain Park	FS fee	Concession	2	FS fee
Ansel Watrous	FS fee	Concession	2	FS fee
Kelly Flats	FS fee	Concession	2	FS fee
Dowdy Lake South	FS fee	Concession	2	FS fee
West Lake	FS fee	Concession	2	FS fee
Bellaire Lake	FS fee	Concession	2	FS fee
Dowdy Lake West	FS fee	Concession	2	FS fee
Olive Ridge	FS fee	Concession	2	FS fee
Camp Dick	FS non-fee	Add water concession	2	FS non-fee
Peaceful Valley	FS non-fee	Add water concession	2	FS non-fee
Tunnel (R.F.)	FS non-fee	Add water concession	2	FS non-fee
Chambers Lake	FS non-fee	Add water concession	2	FS non-fee
Narrows Coop	FS non-fee	Close	1	
Tom Bennett	FS non-fee	Close	1	
Clear Lake	FS non-fee	Close	1	
Skyline	FS non-fee	Close	1	
Eggars	FS non-fee	Close	1	
Upper Landing	FS non-fee	Close	1	

Table 9 (continued)

Campground Name	Current Management Practice	Recommended Management Practice	Time Period Implemented	Interim Management
Stove Prairie Landing	FS non-fee	Close	1	
Tunnel (E.P.)	FS non-fee	Close	1	
Stevens Gulch	FS non-fee	Close	1	
Big South	FS non-fee	Close	1	
Byers	FS non-fee	Close	1	
Meadow Creek	FS non-fee	Close	î	
Aspen Glen	FS non-fee	Close	1.	
Grand View	FS non-fee	Close	ī	
Sawmill Gulch	FS non-fee	Close	2	FS non-fee
Tabernash	FS non-fee	Close	1	10 11011 100
Mishawaka	FS non-fee	Close	Ĩ.	
Indian Meadows	FS non-fee	Close	1	
Idlewild	FS non-fee	FS non-fee	1	
Robbers Roost	FS non-fee	FS non-fee	1	
St. Louis Creek	FS non-fee	FS non-fee	1	
Denver Creek	FS non-fee	FS non-fee	1	
Creedmore Lake	FS non-fee	FS non-fee	1	
North Fork Poudre	FS non-fee	FS non-fee	1	
Long Draw	FS non-fee	FS non-fee	1	
Big Bend	FS non-fee	FS non-fee	1	
Buckhorn Canyon	FS non-fee	FS non-fee	1	
Browns Park	FS non-fee	FS non-fee	1	
Rainbow Lakes	FS non-fee	FS non-fee	1	
Guanella Pass	FS non-fee	FS non-fee	1	
Pawnee	FS fee	FS fee	2	FS non-fee
Mizpah	FS fee	FS fee	2	FS non-fee
West Chicago Creek	FS fee	FS fee	1	<pre>2 years FS non-fee, 3 years FS fee</pre>
Echo Lake	FS fee	FS fee	2	FS non-fee
Columbine	FS fee	FS fee	2	FS non-fee
Sleeping Elephant	FS fee	FS fee	1	13 11011-166
Crow Valley	FS fee	FS fee	1	

fee is not being charged. Fee compliance needs improvement. Compliance Forest-wide in 1981 was 68 percent, or stated another way, almost one-third of user fee returns are lost. Monitoring compliance on just weekends and holidays would account for 31 percent of the days in the fee season, days on which highest occupancy takes place. It is estimated that monitoring these days would achieve compliance from 52 percent of the users. Little more effort on selected sites during weekdays plus those who normally pay their camping fees should achieve a compliance rate in excess of 68 percent.

Changes in both the Land and Water Conservation Fund Act and the Granger Thye Act would facilitate management of campgrounds under these acts. The L&WCF should be changed to allow user fees to be charged in all campgrounds rather than just those having potable water. A differential pricing process can be applied to determine equitable fees for the facilities available at any one campground. The Granger-Thye Act should be changed to allow a percentage other than 6 percent to be charged for the replacement value of improvements. Also, latitude to use funds derived for improvements to the campground as well as maintenance would be in order.

The Draft Forest Land Use Plan for the Arapaho and Roosevelt National Forests identifies an additional 6,000 PAOT capacity is needed by 1990 to meet projected demand. Solutions derived by this process to manage campgrounds within expected budgets calls for closure of 615 PAOT capacity, resulting in a departure of 6,615 PAOT by 1990. Resolution of

this departure appears to make a clear case for private sector investments to meet demand. The Forest should identify campgrounds needing construction and advertise by prospectus for concessionaire construction and operation.

#### RECOMMENDATIONS

It is recommended that a standardized linear program software package be incorporated with the RIM system of Special Reports to aid managers in selecting appropriate campground management practices.

It is further recommended that steps be taken to implement the schedule of management practices illustrated in the optimal solution. It is anticipated that there may be some resistance to the option of concessionaire management of campgrounds and a campground closure program, but if the Forest continues to face limited budgets with no decrease in demand, the solution appears clear.

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# APPENDIX I CAMPGROUND DATA SHEETS

	Campground	Tawnee		Units	_6	PAO	T Capacity	.345
	District	Boulder.		Unit Days	60		aged Season	
	Current Mana			Recommended S		-9/15 F00	s Collected	\$12363
	Fee	\$5		Number of Day	ys X	X DVD		12/267
	Non-Fee	9		Recommended I	ys Fee \$	RVD	Use	7/300
		X1	X2	Х3	Х4	Х5	Х6	X7
		FS Mgt.	Concession		FS Mgt.	Concession	FS Mat.	Concession
		L&WCF Fee	Fee	Close	Non-fee	No Water	Add Water	Add Water
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ns	L&WCF	13,363						
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	Campground	Kelly Da	W	Units		FI PAC	T Capacity	235
	District	Baulder		Unit Days	55	93 Mar	aged Season	5/1-10/31
	Current Mana	agement		Recommended	Season 5/20	1-9/15 Fee	s Collected	\$6,796
	Fee	-\$5		Number of Da Recommended	ys til	~	Use	41,400
,	Non-Fee							
		X1 FS Mgt.	X2 Concession	Х3	X4 FS Mgt.	X5 Concession	X6 FS Mgt.	X7 Concession
		L&WCF Fee	Fee	Close	Non-fee	No Water	Add Water	Add Water
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	Campground District Current Man Fee Non-Fe	\$5		Units Unit Days Recommended Number of Da Recommended	ys		1-9(15) F	AOT Capacity anaged Season ees Collected VD Use	5/1-10/31
		X1 FS Mgt. L&WCF Fee	X2 Concession Fee	X3 Close	X4 FS Mg Non-f	it. ee	X5 Concessio No Water		X7 Concession Add Water
Annual	0 & M Cost	26,755			17,5	4-1	NOT C		
Anr	Permit Adm		867				CONSIDERED		
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ime	Cons Water	21 1 5 2			200		TABLE ALT		
One-Time	Rehab Cost	26,630		33,091	26,8	120	ALTERNATIVE		
Returns	L&WCF Concession	16,430	13,329						24,
,									

	Campground	Mizpali	·	Units			[] P/	AOT Capacity	55
	District	Clear Evel	₹.	Unit Days		1.1	(-( Ma	anaged Season	6/15-9/10
	Current Man	agement		Recommended	Season			ees Collected	
	Fee	\$4		Number of Da	VS	10			1
	Non-Fe	e		Number of Da Recommended	Fee		R	/D Use	11,200
		X1	X2	Х3	X4		Х5	Х6	X7
		FS Mgt.	Concession		FS Mg	t.	Concessio	n FS Mgt.	Concession
		L&WCF Fee	Fee	Close	Non-f	ee	No Water	Add Water	Add Water
	0 & M Cost	5055		-	3,44	\ -T			
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One-Time							P		
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	Campground	West Chicas Clear Creek	so treet	Units			T Capacity	
	District	Clear Creek		Unit Days	-1,0	005 Man	aged Season	6/15-9/15
	Current Man	agement		Recommended !	Season 61	9(15 Fee	s Collected	\$2,967
	Fee Non-Fe			Number of Day Recommended	Fee # 4			16,100
		X1 FS Mgt.	X2 Concession	Х3	X4 FS Mgt.	X5 Concession	X6 FS Mgt.	X7
		L&WCF Fee	Fee	Close	Non-fee	No Water	Add Water	Concession Add Water
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	Campground	Cald Sp.	ings	Units	_	65		T Capacity	
				Unit Days	_	7,735	_ Man	aged Season	6/1.0/15
	Current Mana Fee	agement ∰5		Recommended Number of Da	Season <u>S</u>	5/20-9/1	S Fee	s Collected	
	Non-Fee	3		Recommended	Fee 📑	5/20-9/1	– RVD	Use	41,200
		X1	X2	Х3	X4	X		Х6	Х7
		FS Mgt. L&WCF Fee	Concession Fee	Close	FS Mgt. Non-fee		ession Water	FS Mgt. Add Water	Concession Add Water
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Campground	Echolas	CC.	Units		į	7	PAO <sup>-</sup>	T Capacity	85
	Clear Creek.		Unit Days		1.8	3(5)		aged Season	
Current Man Fee Non-Fe	agement		Recommended Number of Da Recommended	y s	6/1.	9/15	Fee	s Collected Use	
	X1 FS Mgt. L&WCF Fee	X2 Concession Fee	X3 Close	FS Mg Non-f	it. ee	X5 Concess No Wat		X6 FS Mgt. Add Water	X7 Concessio Add Water
0 & M Cost	8,122			5,3	27	NO			
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Rehab Cost	72,270		14 22 0	72,5	270	TERNAT			
Clos Cost			14,330			I VE	7		
L&WCF Concession	2,870								
Concession									

		Columbia		Units				AOT Cap			_
	District	Clay Creek		Unit Days						6/1-0/12	_
	Current Man Fee	agement		Recommended			9/15 F	ees Col			_
	Non-Fe	e # 1		Number of Da Recommended	ys Fee	\$4	77' F	RVD Use		22,100	_
		X1	X2	ХЗ	X4	1	X5		(6	X7	-
		FS Mgt.	Concession		FS Mgt	.	Concessio	on FS	Mgt.	Concessi	on
		L&WCF Fee	Fee	Close	Non-fe	e	No Water	Add	Water	Add Water	r
	0 & M Cost	1 1 1 - 1 -			7,52	`		_			-
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One-Time	Rehab Cost	102,156			102,15	20	ALTERNAT	_			
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	Campground	Mountain,	Park	Units	_ 5	SS PAC	T Capacity	275
		Estes-Porce		Unit Days	7	370 Mar	naged Season	\$20-11/20
	Current Man	agement		Recommended	Season 5/2	$\frac{3(0)}{30}$ Mar $\frac{3-9}{30}$ Fee	es Collected	#13,07b
	Fee Non-Fe	# <del>5</del>		Number of Da Recommended	ree # 5	134 RVC	) Use	38,010
		X1 FS Mgt.	X2	Х3	X4 FS Mgt.	X5	X6	X7
		L&WCF Fee	Concession Fee	Close	Non-fee	Concession No Water	FS Mgt. Add Water	Concession Add Water
	0 0 M C+							
_	O & M Cost	26,211			17,234	8		
Annual						0		
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One-Time	Rehab Cost	73,100			73,100			
One	Clos Cost			101,254		TERNAT		
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ns	L&WCF	14,530					ļ	
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	Campground	Ausel Wa	trous	Units		10	9	PAO <sup>-</sup>	T Capacity	95
	District '	Ester-Poul	~C.	Unit Days			46		aged Season	
	Current Mana			Recommended Number of Da Recommended	ys	5 20	34	Fee	s Collected	12,600
		X1 FS Mgt. L&WCF Fee	X2 Concession Fee	X3 Close	X4 FS Mg Non-f	ıt.	X5 Concess No Wat		X6 FS Mgt. Add Water	X7 Concession Add Water
_	O & M Cost	9,077			5,99	53	NO.			
Annual			294				CONSIDERED			
	Permit Adm		202				DERED A			
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ime	Cons Water						P.			
One-Time	Rehab Cost	60,323			6.0,3	23	TERNAT			
0	Clos Cost			42,211			ATIVE			
Returns	L&WCF	5,020								
Ret	Concession		4,559							· ·
		1							1	

	Campground	Steeping & Ester-Pond	Cephant	Units		١	5	PAO	T Capacity	75
	District	Ester Poud		Unit Days		2.	010	Man	aged Season	5/20-11/20
	Current Man	agement		Recommended Number of Da	Spacon	5/20	Colan	Foo	s Collected	# 2 110
				Number of Da	VS	3/10	34150	ree	s corrected	102/107
	Fee Non-Fe	е		Recommended	Fee	#4		RVD	Use	6,000
		X1	X2	Х3	X4		Х5		Х6	X7
		FS Mgt.	Concession		FS Mgt	t.	Concessi	ion	FS Mgt.	Concession
		L&WCF Fee	Fee	Close	Non-fe	ee	No Wate		Add Water	Add Water
	<u> </u>	1 - 1 / /			4					
	0 & M Cost	1,166		-	4,70	00	NO.	_		-
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	Permit Adm	1	1				DE			
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ne	Cons Water				-		<u> </u>			
One-Time	Rehab Cost	7 255			7,25	55	H			
Je-	Themas dose	1					TERNAT			
Ō	Clos Cost			10,1-14			I			
							IV E			
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'n										
rn	L&WCF	3,170								
Returns			-	-	-	-				1.
Re	Concession			1			-		-	1.
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	Campground	Kelling fla	15	Units		_ 2	23	PAO	T Capacity	112
	District	Ester- Bul	ice	Unit Days		30	182	Man	aged Season	5/20-11/20
	Current Mar Fee	nagement		Recommended	Season	5/20	1-9/30	Fee	aged Season s Collected Use	\$6,105
	Fee	#5	-	Number of Da	ys	113	34	RVD	Use	10000
	Non-Fe			Recommended		# 2				
		X1 FS Mgt.	X2 Concession	Х3	X4 FS Mg	.+	X5 Concess	ion	X6 FS Mgt.	X7
		L&WCF Fee	Fee	Close	Non-f		No Wat	ter	Add Water	Concession Add Water
		1					110 110	-	7100 1000	-Add Adder
	0 & M Cost	10,988			7,2	07	20			
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	Permit Adm	11	356		-		OF R			
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a	Cons Water									
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One-Time	Rehab Cost	2,860			3,8	60	TERNAT I VE			
0	Clos Cost	#		46,680			A			
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S										
Returns	L&WCF	6,077			-		-			
eti	Concession	1	5,519							
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		0 11							
	Campground	Promyou	ex	Units	_	5		Capacity .	
	District	Pawner		Unit Days	_	670	Manage	ed Season	5/1-9/30
	Current Mana Fee	agement		Recommended	Season <u>E</u>	5/20-0/30	Fees	Collected .	
	Fee Non-Fee	- P4	-	Number of Da Recommended	ys _ Fee	139	RVD U	se .	4,400
		X1	X2	Х3	X4	X5		Х6	Х7
		FS Mgt.	Concession		FS Mgt.	Concess	sion	FS Mat.	Concession
		L&WCF Fee	Fee	Close	Non-fee	No Wa	ter A	dd Water	Add Water
	0 & M Cost	2,389			1,56	- N			
lal									
Annual						CO	-		
A	Permit Adm					SID			
	1					CONSIDERED			
						D A	-		
					-	VIABL	-		
a	Cons Water								
One-Time	Rehab Cost	400		-	400	ALTERNAT	-		
ne-	Renab Cosc	400			700	RN			
Ō	Clos Cost			17,013		VIIV			
						m			
10									
Returns	L&WCF	1,056							
Reti	Concession								tr <sub>a</sub>
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Campground (	Dowdy Lake	SouthShore	Units			31			155
District	Redporthin	=	Unit Days		3,1	180	Man	aged Season	
Cummont Man	Gomen +		Recommended	Season	5/20	19/15	Fee	s Collected	\$8,621
Non-Fee	#5		Number of Da Recommended	Fee Fee	- A S	19	RVD	Use	29,900
	X1	X2	Х3	X4		X5		Х6	Х7
	FS Mgt. L&WCF Fee	Concession	Close	FS Mo	Jt.	Concess No Wat		FS Mgt. Add Water	Concessi Add Wate
		ree	0.1030			110 114	CCI	Add water	Aud wate
0 & M Cost	14,811			9,71	4	NO.			
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		400				ISI			
Permit Adm!		480		-		IDERED	-		
		-				A			
-		-		-		VIABLI			-
						80			
Cons Water						AL			
Rehab Cost	21.053	-		21,0	152	-			
VEHOD COSC	Ø1)(3.)			(XI)C	( ) ()	TERNAT			
Clos Cost			29,350			H			
		-		-		VE			
L&WCF	9200			-					
Lawer	3,200								
Concession		7,378							
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	Campground	West Las	ı.C.	Units	2	PAO	T Capacity	145
	District	West Lab Realporter	u	Unit Days	2.	451 Man	aged Season	She mliz
	Current Man Fee Non-Fe	agement _#5 e		Recommended Number of Da Recommended		19 RVD		
		X1 FS Mgt. L&WCF Fee	X2 Concession Fee	X3 Close	X4 FS Mgt. Non-fee	X5 Concession No Water	X6 FS Mgt. Add Water	X7 Concession Add Water
=	0 & M Cost	13,855			9,087	<u> </u>		
Annual						CONSI		
	Permit Adm		449			IDERED		
						A VIABLI		
ılle	Cons Water					BLE AL		
One-Time	Rehab Cost	55,561		14,902	55,567	TERNAT		
	LIOS COST			14,702		V		
S								
Returns	L&WCF Concession	8,605	6,901					**.
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	Campground	Bellaine L	alc	Units		1	3PA	OT Capacity	65
	District	Redfeathe	Ž.	Unit Days		15	47 Ma	naged Season	
	Current Man			Recommended	Season	5/20		es Collected	-
	Current Man Fee	#2	-	Number of Da	ys	11	9 RV	D Use	15,600
	Non-Fe			Recommended		<u>\$2</u>			
		X1 FS Mgt.	X2	Х3	X4		X5	Х6	X7
		L&WCF Fee	Concession Fee	Close	FS Mg Non-f		Concession No Water		Concession Add Water
			100				no nater	nad water	Add water
	0 & M Cost	6,211			4,0	73	8		
la]									
Annual							Ç		
A	5		201				CONSIDERED		
	Permit Adm	1	301		1		OF R		
							A VIABL		
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e	Cons Water						AL.		
One-Time	Rehab Cost	(0,858	1		6,8	5 V			
e-	Kenab Cost	(10.30			10,10	20	TERNATIVE		
0	Clos Cost			8,610			T		
				-	-		- K	-	
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JS	L&WCF	3,050			-			-	
Returns	LAWLE	3,0,00			1	-			
Ret	Concession		3,094						٠.
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Ca	ampground	Doesdig Lake	West Show	Units		A4 PAC	T Capacity	
	istrict	Perfectives		Unit Days Recommended Number of Da	-21	836 Mar	naged Season	
Cı	urrent Man Fee	agement		Recommended	Season 3/20	-)\(\(\sigma\) Fee	es Collected	
	Non-Fe	-# 2		Recommended	Fee 15	S RVE	) Use	25,400
	11011 1 0	X1	Х2		X4	X5		
		FS Mgt.	Concession	Х3	FS Mgt.	Concession	X6 FS Mgt.	X7 Concession
-		L&WCF Fee	Fee	Close	Non-fee	No Water	Add Water	Add Water
1	) & M Cost	11,466		-	7,520	8		
lal								
Annual						CONS		
			312			115		
P	ermit Adm	11	.512	-		IDERED		
						>		
-						VIABL		
						BL		
2 6	ons Water					<u>}</u>		
One-Time	Johan Cost	49,210			49,210			
e -	enab Cost	17,210			1)1210	TERNATIV		
2 0	los Cost			14,524		T I		
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al H	&WCF	7,288	=======================================		-		-	
Returns FIFI	oncession		5,712					te,
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		il .						
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Di	ampground istrict urrent Mana Fee Non-Fee	9		Units Unit Days Recommended Number of Da Recommended	Season 5/20 ys Fee	Man   Man		61.10/15
		X1 FS Mgt. L&WCF Fee	X2 Concession Fee	X3 Close	X4 FS Mgt. Non-fee	X5 Concession No Water	X6 FS Mgt. Add Water	X7 Concession Add Water
	& M Cost	36,788			24,127	NO		
Annual						CONS		
-	ermit Adm		1,192			SIDERED		
						P		
F						VIABL		
ime	ons Water	0/0 200			21 / 224			
Je l	los Cost	269,308		18,045	269,308	ALTERNAT		
						VE		
\$								
E	AWCF oncession	25,775	18,32*1					
2	uncess tun		101.72					
F								
E								

	Campground	Willow Co	eck.	Units		S PAC	T Capacity	_175
	District	Supplan		Unit Days	4,1	65 Man	aged Season	6/1.10/15
	Current Mana	agement		Recommended	Season 5/20	-915 Fee	s Collected	
	Current Mana Fee Non-Fee			Unit Days Recommended Number of Da Recommended	ys Fee \$5	RVD	Use	1)000
		X1 FS M-+		Х3			X6	X7
		FS Mgt. L&WCF Fee	Concession Fee	Close	FS Mgt. Non-fee	Concession No Water	FS Mgt. Add Water	Concession Add Water
	0 & M Cost	16,122			10,967	NO	1	-
Annual								
Ann						CONS		
	Permit Adm		542			ID.		
						IDERED		
						D		
						VIABLI		
					-	- B		
je.	Cons Water					1.1		
One-Time	Rehab Cost	86.581		-	86,581	ALTERNAT		
ne-		30, 0.5			000	RNA A		
0	Clos Cost		1	34,942		IV		
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.0								
ırn	L&WCF	8,210						
Returns	Concession		8,331					54.
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,	Campground District Current Mana Fee Non-Fe	e		Units Unit Days Recommended Number of Da Recommended		9.8	3 77 -9/15	Man		5/15-10/15 \$35,179 57,200
		X1 FS Mgt. L&WCF Fee	X2 Concession Fee	X3 Close	X4 FS Mg Non-f	t. ee	X5 Concess No Wat		X6 FS Mgt. Add Water	X7 Concession Add Water
	0 & M Cost	39,654			26,00	70	NO.			
Annua 1										
An	Permit Adm		1285				CONSID			
	1 2 1 1 2 1 1 2 1 1		1,000				DERED			
							A			
							VIABLE			
me	Cons Water						1			
One-Time	Rehab Cost	1,834,300			1,834,	300	ALTERNAT			
0	Clos Cost			66,354			ATIV			
							m			
Returns	L&WCF	35,824								
Ret	Concession		30,199							*.
		2								
3										
1							1			

	Campground	Stillwale	21/2 1	Units	1.	45 PAC	T Capacity	725
	District	Sulphur		Unit Days	17	255 Man	aged Season	
	Current Man Fee	agement		Recommended	Season 5/20	9 Fee	s Collected	\$38 517
	Fee Non-Fe	36		Number of Da Recommended	ys Fee	9 RVD	Use	63,200
	MOII-16	X1	X2	X3	X4	X5	Х6	X7
		FS Mgt.	Concession		FS Mgt.	Concession	FS Mgt.	Concession
		L&WCF Fee	Fee	Close	Non-fee	No Water	Add Water	Add Water
	0 & M Cost	69,275			45,434	7		
аЛ						0		
Annua 1						CONS		
A	Permit Adm	1	2,245			SID		
			0,473			IDERED		
						DA		
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a	Cons Water							
One-Time	Pohah Cost	360,355			360,355	ALTE		
ne-	Kellah Cosc	,200,000			1001393	TERNAT		
0	Clos Cost			159,724		1		
						m		
S								
urn	L&WCF Concession	40,832						
Ret	Concession		34,962					54,
								-
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	Campground	Parintrais 1	alies	Units			18	PAO	T Capacity	90
	District	Baulder		Unit Days		15	584			6/20-10/15
	Current Man			Recommended	Season			Fee	s Collected	The second
	Fee	Fee		Number of Days Recommended Fee		88 PVD				11,800
	Non-Fee X		A CONTRACTOR OF THE PARTY OF TH		45					
		X1 FS Mgt.	X2 Concession	Х3	FS Mg	+	X5 Concess	ion	X6 FS Mgt.	X7 Concession
		L&WCF Fee	Fee	Close	Non-f	ee	No Wat	er	Add Water	Add Water
	0 & M Cost				5,62	+0	8		8,600	
Annual										
Inn							0 <u>N</u> 0			
1	Permit Adm	1					CONSIDERED			
							RE			
				-	-		D A	-		
							VIABLE			
One-Time	Cons Water	1			-				40,000	
	Lillis Mater						AL.			
1-0	Rehab Cost				14,0	34	E		14,034	
One	Clos Cost			10,706	-		ALTERNATIVE			
	0103 0030						V E			
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urr	LXWCF								3,125	
Ret	L&WCF Concession									*.
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	Campground	Camp Dich		Units		2	34	PAO	T Capacity	170
	District	Camp Dich Boulder		Unit Days		4,046		Managed Season 5/1-10/31		
		Current Management		Recommended Season Number of Days Recommended Fee		34 PAC 4,046 Mar 5 20-0 15 Fee		Fee	es Collected	
	Fee Non-Fee X							RVD	Use	37,500
	Non-re	· ·			ree	#5	VE		VC	
		X1 FS Mgt.	X2 Concession	Х3	FS Mg	ıt.	X5 Concess	ion	X6 FS Mgt.	X7 Concession
		L&WCF Fee	Fee	Close	Non-	fee	No Wat	er	Add Water	Add Water
	0 & M Cost			-	10,6	54			16,244	
_					1070		NO			
Annual					-		00			
An							SN			
	Permit Adm	1		-	-		CONSIDERED			526
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							VIABL			
							B_E		20 20 7	<b>P</b> 2 22
me	Cons Water	-					<u> </u>		38, 327	38,327
One-Time	Rehab Cost				151,6	12/20	ALTERNATIV		151,644	
0ne	Clos Cost			P81716	-		NA T			
	LIOS COSC			21,101			<			
							1.1			
15	1 0/105								7000	
Returns	L&WCF	,			-				7,980	
Ret	Concession									8,002
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	Campground	Peceroful V	alley	Units		21	PAO	T Capacity	105
	District	Brush	0	Unit Days	_		Mar	aged Season	5/1-10/31
	Current Man				Season 5	100-	Shit Fee	s Collected	at. 1015.
	Fee			Recommended Number of Da	ys	119	The ball		22300
	Non-Fe	e X		Recommended	Fee 1	\$5			20,300
		X1	X2	Х3	Х4		X5	Х6	Х7
		FS Mgt. L&WCF Fee	Concession	Close	FS Mgt. Non-fee	.   0	Concession No Water	FS Mgt. Add Water	Concession Add Water
			1 66	01030			no nacei		Add water
	0 & M Cost				6,580	2	NO	10,033	-
la l									
Annua 1							O <sub>N</sub>		
A	Permit Adm			-		-			325
•	Periint Aoni	14					CONSIDERED		.) 20
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							VIABLE		1
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me	Cons Water		-		-	-	<del></del>	23,613	23,613
One-Time	Rehab Cost				94,14	16	ALTERNATIV	94,146	
ne					- 7		- Ñ		
0	Clos Cost			10,930	-	-			
							- m		
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Returns	L&WCF.							4,930	
etu			-						4 000
R	Concession	1	-						4,998
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	Campground	Ginnella	Pass	Units			9	PAOT	Capacity	45
	District	Clear Crack		Unit Days		83	7		aged Season	
	Current Man			Recommended	Season	6/15-	3115		Collected	
	Fee			Number of Da	IVS	9	3/15		Use	15,200
	Non-Fe			Recommended		14				
		X1 FS Mgt.	X2 Concession	Х3	FS Mg	+	X5 Concess	ion	X6 FS Mgt.	X7 Concession
		L&WCF Fee	Fee	Close	Non-f	ee	No Wat		Add Water	Add Water
	0 0 14 Coot				D 64-	10			4,300	
_	0 & M Cost				2,83	2(1	0		7)300	
Annual							0			
Ann					-		SNO			
	Permit Adm						CONSIDERED			
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							VIABL			
							ABL			
e	Cons Water						<b>→</b>		817	
One-Time	Rehab Cost				70,1		AL TE		70,114	
le-	Renad Cost				101	(-F	R		10,111	
0	Clos Cost			14,729			ERNATIV			
							<u>— — — — — — — — — — — — — — — — — — — </u>			
			-		-					
rns	L&WCF								1,320	
Returns										
Re	Concession									
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	Campground	Clan Late	C.	Units		8	PAO	T Capacity	40
	District	Clar Cree		Unit Days	-	744	Man	aged Season	
	Current Man			Recommended	Season (	15-9/15	Fee	s Collected	413 1113
	Fee			Number of Day	ys _	93	— RVD	Use	7,700_
	Non-Fe		-	Recommended					
		X1 FS Mgt.	X2 Concession	Х3	X4 FS Mgt	Conc	5 ession	X6 FS Mgt.	X7 Concession
		L&WCF Fee	Fee	Close	Non-fee	e No	Water	Add Water	Add Water
	O & M Cost				2,507			3,822	
_	0 4 11 0030				(1)		0	.,,0	
Annual						-	00		
An							ISN		
	Permit Adm	1			1		CONSIDERED		
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	Cara Matara						F	1,000	
ime	Cons Water						AL.	,	
One-Time	Rehab Cost				69,60	0	TERNATIV	69,600	
0	Clos Cost			8,030			AT		
				-		-	<del>M</del>		
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rns	L&WCF							4175	
Returns	Concession					_			·.
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	Campground	Tom Bene	nett	Units			7	PAO	T Capacity	35
	District	Ester-Poul	100	Unit Days		S	33			5/20-10/20
	Current Mana			Recommended	Season			Fee	s Collected	steer where
	Fee			Number of Da	ys	1	1-0/15			6,100
	Non-Fee	2 X		Recommended		\$ 2	,	NVD		
		X1 FS Mgt.	X2 Concession	Х3	X4 FS Mg	+	X5 Concess	ion	X6 FS Mgt.	X7
		L&WCF Fee	Fee	Close	Non-f	ee	No Wat		Add Water	Concession Add Water
	O & M Cost								3,344	
_	U a M COSC				2,19	5	0		2,247	
Annua 1							0			
Anr							CONS	-		
	Permit Adm						DERED			
			-				RED			
							A			
			-				VIABL			
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ne	Cons Water				-		<u>&gt;</u>		7,300	
One-Time	Rehab Cost				89,1	20	ALTERNATIV		89,120	
)ne	63			7111			NA.		3.(	
_	Clos Cost			7,666			V			
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S										
Returns	L&WCF				-				1,315	
Ret	Concession									· .
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	10									
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	Campground	Mishauck Ester- Brul	a	Units			3	PAO	T Capacity	15
	District	Estes-Parcel	lie.	Unit Days		4	02		aged Season	
	Current Man			Recommended	Season		5-9130		s Collected	4-1-1-1
	Fee			Number of Da	ys	13	34		Use	1,700
	Non-re	e		Recommended		# 4	7.5			
		FS Mgt.	X2 Concession	Х3	FS Mg	ıt.	X5 Concess	ion	X6 FS Mgt.	X7 Concession
		L&WCF Fee	Fee	Close	Non-f	ee	No Wat		Add Water	Add Water
	0 & M Cost				94	()			1,433	
=							NO			
Annual							00			
A							ISN			
	Permit Adm	1					CONSIDERED			
					-		AV			
							VIABL			
	Cons Water						-		7,300	
ime					7-1		AL.			
le-1	Cons Water Rehab Cost Clos Cost				330	1	TERNATIVE		330	
0	Clos Cost			3451			AT.			
							- E			
ırns	L&WCF Concession								635	
leti	Concession									· .
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		The state of the s								

	Campground	Stove Prairie	& Landing	Units			7	PAO	T Capacity	35
	District S	Ester- Poul	ie )	Unit Days		9	38		aged Season	
	Current Man			Recommended	Season	5/20	-9/30	Fee	s Collected	
	Fee			Number of Da	ys	1/3	54	RVD	Use	
	Non-re	e		Recommended		14	V.5			
		X1 FS Mgt.	X2 Concession	Х3	FS Mg	ıt.	X5 Concess	ion	X6 FS Mat	X7 Concession
		L&WCF Fee	Fee	Close	Non-f	ee	No Wat	er	FS Mgt. Add Water	Add Water
	0 & M Cost			-	2,10	13			3,344	
_							NO		•/)./	
Annual							6			
An							ISN			
	Permit Adm	1		-			CONSIDERED			
							A			
							A VIABL			
							81.		7 2 22	
ime	Cons Water						AL.	-	7,300	
One-Time	Rehab Cost				9,94	40	TERNATIVE		9,940	
One	Clos Cost			5,387	-		N N			
							I VE			
ns	L&WCF								1,480	
Returns									1) 7.20	
Re	Concession		,							**,
			27.18							
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		Upper bang		Units Unit Days		_8	6	Mana	T Capacity aged Season	111.12/21
	Current Man Fee Non-Fe	e <u>X</u>	-	Recommended Number of Da Recommended	ys Fee	\$ 4		RVD	s Collected Use	1,500
		X1 FS Mgt. L&WCF Fee	X2 Concession Fee	X3 Close	X4 FS Mg Non-f	t. ee	X5 Concess No Wat	ion er	X6 FS Mgt. Add Water	X7 Concession Add Water
lal	0 & M Cost				1,88	0	20		2,861	
Annual	Permit Adm	1					CONSIDE			
							IDERED A			
	Cons Water						VIABLE		7,300	
One-Time	Rehab Cost				4,13	541	ALTERNAT		4,134	
0	Clos Cost			1,7130			ATIVE			
NS	1 21/05								1,270	
Retur	L&WCF Concession								1) & (C)	٠.

	Campground	Marrows C	900	Units			12	PAO	T Capacity	60
	District	Ester-Aud	re.	Unit Days			800		aged Season	
	Current Man			Recommended	Season			Fee	s Collected	1
	Fee Non-Fe	e		Number of Da Recommended	iys Fee	\$4	34	RVD	Use	2,400
		X1	X2	Х3	X4		Х5		Х6	Х7
		FS Mgt. L&WCF Fee	Concession Fee	Close	FS Mg Non-f	t.	Concess No Wat		FS Mgt. Add Water	Concession Add Water
			100				110 110			Add water
	0 & M Cost				3,76	()	NO.		5,733	
ual										
Annual			-		-		) NS			
	Permit Adm						CONSIDERED			
		1					RE			
							A			
							<			
							ABLE			
n)	Cons Water								7,300	
One-Time					20.0		ALTERNAT			
le-J	Rehab Cost		-		33,0	00	P P		33,000	
0	Clos Cost			12,272			ATI			
				-	-		IVE			
su.	L&WCF		-				-		3,110	
Returns										
Re	Concession		-	-	-		-			**.
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	Campground	Eggais		Units			4	PAO	T Capacity	20
	District	Estes- Buch		Unit Days					aged Season	
	Current Man			Recommended	Spason				s Collected	
	Fee			Number of Da	<b>VS</b>	3/50	-1			
	Non-Fe	e		Recommended	Fee	# ~		KVU	Use	2,200
		X1	X2	Х3	Х4		Х5		Х6	X7
		FS Mgt. L&WCF Fee	Concession	Close	FS Mg Non-f	t.	Concess		FS Mgt.	Concession
		LAWCF FEE	Fee	01036	NON-1	ee	No Wate	er	Add Water	Add Water
	0 & M Cost				1,25	3	2		1,911	
a J					,		N 0			
Annual							CONS			
Ar							NS			
	Permit Adm						IDERED			
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				-			VIABLI			
a)	Cons Water						111		7,300	
Ë							F			
One-Time	Rehab Cost			-			ALTERNAT			
00	Clos Cost			954			AT			
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Returns	L&WCF				-		-	-	845	
et.	Concession									1
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	Campground Judian &	kadows	Units			3	PAOT	Capacity	15
	District Estes-Pouch	Q	Unit Days		40	12	Mana	aged Season	11-12/51
	Current Management		Recommended	Spason	5/20	-0130	Foos	Collected	Acres
	Fee		Number of Da	VS	3/50	54	DVD	Collected	1 542
	Non-Fee X		Recommended	Fee	H 1		KVU	Use	1,500
	X1	X2	Х3	X4		Х5		Х6	X7
	FS Mgt.	Concession	0.7	FS Mg	t.	Concessi	on	FS Mgt.	Concession
	L&WCF Fee	Fee	Close	Non-f	ee	No Wate	er	Add Water	Add Water
	0 & M Cost			940	)		-	1,433	
_	1					NO			
Annual						,			
Inn				-		CONSIDERED	-		
1	Permit Adm					10	-		
	Perint C Adm 1					R			
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						VIABLE	-		
41	Cons Water					1		7,300	
One-Time						ALTERNATIVE			
-	Rehab Cost			64	0	E		640	
)ne			2150	-		- Z	-		
_	Clos Cost		3,158	1					
						m			
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US	L&WCF	-		1		-		635	
Returns	LANCE							6.23	
et	Concession								tv.
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Campground Bis Band Units PAOT Capacity	
Current Management Fee Number of Days Recommended Fee Number of Days RVD Use Number of Days RVD U	_
Non-Fee X Recommended Fee 4 X4 X5 X6 X7  FS Mgt. Concession FS Mgt. Concession Non-fee No Water Add Water	7
Non-Fee X Recommended Fee 4 X4 X5 X6 X7  FS Mgt. Concession FS Mgt. Concession Non-fee No Water Add Water	_
X1 X2 X3 X4 X5 X6 X7 FS Mgt. Concession L&WCF Fee Fee Close Non-fee No Water Add Water Add Water  0 & M Cost 3,760 5,133	1_
FS Mgt. Concession L&WCF Fee Fee Close Single Concession Non-fee No Water Add Water Add Water Add Water Single Sin	
L&WCF Fee   Fee   Close   Non-fee   No Water   Add W	ion
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Permit Adm	
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Rehab Cost 750 TT 750	
5 Clos Cost 6,562	
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7 1402	
LAWCF 3,V(O	
Concession	٠.,
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	20	T Capacity	PAOT	4			Units		Tunnel	Campground	
31	1/1 - 12/:	aged Season	Mana	76	4		Jnit Days	le	Ester-Poud	District	
	4	s Collected	Fees			Season	Recommended			Current Mana	
	1,100	Use		9		ys	Number of Da			Fee	
_					#4		Recommended			Non-Fee	,
ion	X7 Concess	X6 FS Mgt.	cion	X5	1.	FS Mo	Х3	X2 Concession	X1 FS Mgt.		
er	Add Wat	Add Water	ter	No Wa	fee _	Non-f	Close	Fee	L&WCF Fee		
-					7	1 25				O O M Cook	Ì
-		1,911		8	0.0	1,25				0 & M Cost	-
											Annual
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				0.0						Permit Adm	1
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	-		-	DA						1	-
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				VIABL							
-	-	7,300	_	<u>—</u>		-		-		C Mahasa	
		11300		2						Cons Water	ille
				TER						Rehab Cost	-
_				ALTERNAT	-	-	1,458	-		Clos Cost	One-Time
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		750									Returns

	Campground	Buckhom ( Ester-Porch	Lauzon	Units	_	12	PAOT Capacity	60
	District	Ester-Pouch	. Le	Unit Days		1428	Managed Seasor	111-12/31
	Current Man			Recommended	Season =	5/20-2/15	Fees Collected	7
	Fee		20	Number of Da	ys	119	RVD Use	3,500
	Non-Fe	eX		Recommended		-		
		X1 FC Mat	X2	Х3	X4 FS Mgt.	X5	X6	X7
		FS Mgt. L&WCF Fee	Concession Fee	Close	Non-fee	Concess No Wat		Concession Add Water
			, 66					7,44
	0 & M Cost		-		3,760	8	5,733	
lal								
Annual						CONS		
A	Permit Adm	1				118		
84	FERRITE AGR	1				IDERED		
						ED A		
						A <		
						VIABLI		
						<u> </u>	7 2 12	
me	Cons Water					7	7,300	
One-Time	Rehab Cost				3,000	TERNAT	3,000	
Jne	Clos Cost			2,330		N N		
Ŭ	LIOS LOST			2,550		~		
10								
rns	L&WCF						2,250	
Returns	Concession				-			<del> </del>
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	Campground	Stevens (	alde	Units			7 P	AOT Capacity	35
	District	Este, - Roul	مرو	Unit Days		S		anaged Season	
	Current Man			Recommended	Season	5/20	2-9/15 F	ees Collected	the refer
	FPP	e		Number of Da Recommended	ys Fee	\$ 4	19 R	ees Collected	2,600
1		X1	X2	ХЗ	X4		X5	X6	X7
		FS Mgt.	Concession		FS Mg	t.	Concessio	n FS Mgt.	Concession
		L&WCF Fee	Fee	Close	Non-f	ee	No Water	Add Water	Add Water
	0 & M Cost				2,19	3	7	3,344	
<u>_</u>							0	<del></del>	
Annual							00		
Aı							S		
	Permit Adm			-			CONSIDERED		
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							VIABL		
							378	M (7.50)	
ille	Cons Water						7	7,300	
One-Time	Rehab Cost				68	0	ALTERNATIVE	680	
One	Clos Cost	1		3028	-		- X	_	
	LIOS LOST			1.75.20			<		
							1.1		
		1							
S									
Returns	L&WCF			-				1,315	-
Ret	Concession								1.
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		and the same							
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	Campground District	Chambers L Redforther	alse	Units Unit Days		6:	183 Mar	T Capacity naged Season	
	Current Man			Recommended Number of Da Recommended	Season ys Fee	\$ 5	1-9/15 Fee	es Collected	51,700
		X1 FS Mgt. L&WCF Fee	X2 Concession Fee	X3 Close	X4 FS Mg Non-f	it. ee	X5 Concession No Water	X6 FS Mgt. Add Water	X7 Concession Add Water
_	0 & M Cost				17,8	60	NO	27,232	
Annual							CONS		
,	Permit Adm						IDERED A		882
							VIABLE	10.05	4.2.00
One-Time	Cons Water Rehab Cost				261,	500_	ALTER	40,025	40,025
One	Clos_Cost			30,641			TERNATIVE		
Returns	L&WCF							13,376	
Ret	Concession								13,560

	Campground	Browns Pa Relfeather	بركو	Units		9	8	PAO	T Capacity	140 5/15-11/12,
	District	Relfeather		Unit Days		3:	152	Man	aged Season	5/15-11/12
	Current Man		,	Recommended	Season	6/20	2-10/31	Fee	s Collected	2/
	Fee			Number of Da	ys	13	34	RVD	Use	17.300
	Non-Fe	e X		Recommended	ree	\$ 5	)			
		X1 FS Mgt.	X2 Concession	Х3	X4 FS Mg	1+	X5 Concess	ion	X6 FS Mgt.	X7 Concession
		L&WCF Fee	Fee	Close	Non-f	fee	No Wat	er	Add Water	Add Water
	0 & M Cost				8,7	1 ()			13,371	
_	U & M COST				0,1	17	0		19,511	-
Annual							0			
Ann							ONS S	-		
	Permit Adm	1					CONSIDERED			
		11					R			
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							A VIABL			
a)	Cons Water						111		6,000	
Ē					1/1/9	15 /1				
One-Time	Rehab Cost				44,8	184	E Z		44,889	
0	Clos Cost			14,196			ALTERNATIV			
					-		≤ m			
.us	L&WCF	1			-		-		7,400	
Returns									,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Re	Concession	4		-						**.
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	Campanaund	Skyline Redfeathe		Units		(	Q n/	OT Capacity inaged Season ees Collected D Use	40
	Campground	Segune					O PF	or capacity	40
	District	Keilfeathe	C	Unit Days		15	Ma	naged Season	2/12-11/15
	current man	agement		Recommended :	Season	5/21	3-9/15 FE	es Collected	
	Fee Non-Fe	e X		Number of Day Recommended	ys Foo	# =	RI RI	'D Use	6,100
	11011-16		•		V 4	# 2	VE	1 26	
		X1 FS Mgt.	X2 Concession	Х3	X4 FS Mg	+	X5 Concession	X6 FS Mgt.	X7 Concession
		L&WCF Fee	Fee	Close	Non-f	ee	No Water	Add Water	Add Water
									Tidd Human
	0 & M Cost				2,50	77	NO	3,822	
Annual	<u> </u>						7	-	
Jun							6		
A							CONSIDERED		
	Permit Adm	1	-				DEF	-	
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							A		
							VIABL		
							ABI	-	
	Cons Water						- 171	7,300	
ime	Limb Hater						₽.		
One-Time	Rehab Cost				73,3	40	TERNATIV	73,340	
0 U	Clos Cost			8,489			A		
				(2)			<		
							177		
	-							1	
rns	L&WCF							1,880	
Returns	6							1	
Re	Concession			-					1.
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*	Campground	Tunnel		Units		49	PAOT Capacity	245
		Rudfenthe		Unit Days	5		Managed Season	
	Current Man			Recommended	Season 51	20-9115	Fees Collected	m/r
	Fee Non-Fe			Number of Da Recommended	ys Fee	5	RVD Use	37,100
		X1	X2	Х3	Х4	X5	X6	X7
		FS Mgt. L&WCF Fee	Concession	Close	FS Mgt. Non-fee	Concessi No Wate		Concession Add Water
	0.0 M. Cash							
_	0 & M Cost				15,354	NO	23,410	
Annual						2		
Anı						CONS		
	Permit Adm	1				IDERED		759
						A		
						VIABLI		
	Carra Hadan					- BE	34,400	34,400
ime	Cons Water					7		57,700
One-Time	Rehab Cost				1,375	TERNATIVE	1,375	
0	Clos Cost			4-1,572		A		
						<u> </u>		
			-					
Returns	L&WCF						11,500	
Reti	Concession							11,663
Œ								
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	10.							
	+							

	Campground	Lig Sout	u	Units			4	PAO	T Capacity	20
	District 1	Real cathe	C	Unit Days		4	76	Man	aged Season	5/15-11/12
	Current Mana			Recommended	Season	5/20	1-9/15		s Collected	
	Fee Non-Fee			Number of Da	VS	11	19		Use	4,400
	Non-ree			Recommended		# 4	9			
		X1 FS Mgt.	X2 Concession	Х3	X4 FS Mg	ı+	X5 Concess	ion	X6 FS Mgt.	X7 Concession
		L&WCF Fee	Fee	Close	Non-f	ee	No Wat	er	Add Water	Add Water
	O & M Cost				1,25	3			11911	
_	U a M COSC				1)2-	2.)	0		11711	
Annual							0			
Anr							SNO			
	Permit Adm						CONSIDERED			
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a	Cons Water						· ·		7,300	
Ξ.	2 1 1 6 1				1,22	.1			1.724	
One-Time	Rehab Cost		-		1122	-4	ALTERNATIVE		1,424	
0	Clos Cost			1780			AT			
				-			- S	_		
Su.	L&WCF								750	
Returns										
Re	Concession			-			-			**
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L&WCF Fee Fee Close Non-fee No Water Add Water	ssion
Current Management  Fee Non-Fee Non-Fee  X1  X2  X3  X4  X5  X6  X7  FS Mgt.  L&WCF Fee  Close  Non-fee  o Water  Add Water  Add Water  Add Water  Add Water  Add Water  Non-fee  Non-fee No Water  Non-fee Non-fee No Water  Non-fee No Water  Non-fee No Water  Non-fee Non-fee Non-fee No Water  Non-fee No Water  Non-fee Non-fee Non-fee	ssion
Non-Fee X Recommended Fee X X5 X6 X7 FS Mgt. Concession L&WCF Fee Fee Close Non-fee No Water Add	ssion
X1 X2 X3 X4 X5 X6 X7 FS Mgt. Concession FS Mgt. Concession FS Mgt. Concession Non-fee No Water Add Water A	ssion
FS Mgt. Concession FS Mgt. Concession Non-fee No Water Add Water A	ssion
L&WCF Fee Fee Close Non-fee No Water Add Water	ater
0 & M Cost 3,133 4,7-18	
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VIABLE	
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in a land in a l	
Rehab Cost 2,130 E 2,130	
V M	
ELAWCE 2,345	
TAME A,STS	
LAWCF 2,345	***
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	Campground	xlorth Forh	Ponche	Units		9 PA	OT Capacity	45
	District	Restantha	l	Unit Days	1.0		naged Season	
	Current Man	agement		Recommended	Season 5/2	109/15 FE	es Collected	
	Fee			Number of Day	ys Fee	19 RI	es Collected D Use	17,100
	Non-re	e		Recommended				
		X1 FS Mgt.	- X2 Concession	Х3	X4 FS Mgt.	X5 Concession	X6 FS Mgt.	X7 Concession
		L&WCF Fee	Fee	Close	Non-fee	No Water	Add Water	Add Water
	0 & M Cost			-	2,820		4,300	
_	0 4 11 0030				21020	0	1) 200	·
Annual				,		2		
An						SNS		
	Permit Adm	1				CONSIDERED		
						RED		
						A		
				-		VIABL	+	3
						BL		
lle	Cons Water					≥	7,300	
One-Time	Rehab Cost				3,135	ALTERNATIV	3,735	
)ne				8,123		NA.		
	Clos Cost			0,165		<		
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S								
Returns	L&WCF					-	1690	
Ret	Concession							1.
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	Campground	Long Draw Rolly cathe	J	Units		25 PA	OT Capacity	125
	District	Rolld cathe		Unit Days		975 Ma	naged Season	
	Current Mana			Recommended	Season 5/2	0-9/15 Fe	es Collected	1
	Fee Non-Fee	e		Number of Da Recommended	ys Fee 3	10	D Use	12,400
		X1	- X2	Х3	Х4	X5 .	X6	X7
		FS Mgt. L&WCF Fee	Concession	Close	FS Mgt. Non-fee	Concession No Water	FS Mgt. Add Water	Concession Add Water
į			7 00			NO Nater		Add Nates
-	0 & M Cost				7,833	8	11,944	
lal				-				
Annual						CONS		
4	Permit Adm					SID		
İ	Termita Admi					IDERED		
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						VIABLI		
	Cons Water		-			<del></del>	10,000	
One-Time						AL.	1	
1-1	Rehab Cost				39,956	TERNAT	39,956	
One	Clos Cost		-	16, 132.	-	I AT		
						IVE		
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1								
S	1.200=					-	5,870	
Returns	L&WCF						3,010	
Ret	Concession							6,
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	Campground	Grandvier Redfeather	S	Units			6	PAO	T Capacity	30
	District	Redheatlas		Unit Days		7	14		aged Season	
	Current Man			Recommended :	Soacon	=	alu	Foo	s Collected	atis itse.
	Fee			Number of Day	VS	2/21	19/15			
	Non-Fe	e ×		Recommended	Fee	# 5		RVD	Use	3,300
		X1	X2	Х3	Х4		Х5		Х6	X7
		FS Mgt.	Concession		FS Mg	t.	Concess	ion	FS Mgt.	Concession
		L&WCF Fee	Fee	Close	Non-f	ee	No Wat	er	Add Water	Add Water
	0 & M Cost	1			1,880				2,861	
_	0 4 11 0000				11000		NO.		0.7001	
na							0			
Annual							9			
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	Campground	Aspen Ele Red Cathe	on	Units				T Capacity	
	District	Redicathi	L.	Unit Days		9	52 Mar	aged Season	5/15-11/12
	Current Mana	agement		Recommended	Season	5/20		s Collected	
	Fee Non-Fee	e		Number of Da Recommended	ys Fee	#4	RVC	Use	9,500
		X1 FS Mgt. L&WCF Fee	X2 Concession Fee	X3 Close	X4 FS Mgt Non-fe	t. ee	X5 Concession No Water	X6 FS Mgt. Add Water	X7 Concession Add Water
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Recommended Season   C  - 9    Fees Collected   RVD Use   3,300					Unit Days		5	35	Mana	aged Season	6/1-10/15
Non-Fee X Recommended Fee 32 No State N		Current Man			Recommended :	Season	6/1-	9/15	Fees	s Collected	
No.   State		Fee Non-Fe	0 X		Number of Dag	ys Foo	# 10	77			
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L&WCF Fee   Fee   Close   Non-fee   No Water   Add Water   Add Water     0 & M Cost			FS Mgt.			FS Mg	t.		ion	FS Mgt.	
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Rehab Cost	41	Cons Water						1.1		7,300	
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	e-T	Rehab Cost				16,9	70	EN		16,970	
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L&WCF 845  Concession					-	-		¥.			
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	Campground	Tabernas	1,	Units		0	0	PAO	T Capacity	100
	District	Sulphur		Unit Days					aged Season	
					C					
	Current Man Fee	agement		Recommended !	season	1 1 1			s Collected	
	Non-Fe	e		Number of Day Recommended	ys Fee	\$ 4	31.	RVD	Use	12,200
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		FS Mgt.	Concession	Х3	FS Mg	+	Concess	ion	X6 FS Mgt.	X7
		L&WCF Fee	Fee	Close	Non-f	66	No Wat		Add Water	Concession Add Water
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	Campground District	Byers Crei	Q.	Units		C PAC	T Capacity	30
	District	Sulphun		Unit Days	5	C 8 11		
	Current Man			Recommended	Season 6/19	$\frac{658}{6-5/15}$ Mar $\frac{6-5/15}{9.3}$ RVI	es Collected	
	Fee			Number of Da	ys <u>ot</u>	9.3 PVI	) Use	9,400
	Non-Fe			Recommended	ree <u>a</u>	4		1,700
		X1	X2	Х3	X4	X5	Х6	X7
		FS Mgt. L&WCF Fee	Concession Fee	Close	FS Mgt. Non-fee	Concession No Water	FS Mgt. Add Water	Concession Add Water
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	Campground	Adlenield		Units		2	4	PAO	T Capacity	120
		Sulphun		Unit Days		215			aged Season	
	Current Man			Recommended	Season	611.	9/15			
	Fee			Number of Da	ys	10	)7'			
	Non-Fe	e X		Recommended	Fee	#5		KVD	026	10,600
		X1	X2	Х3	X4		X5		Х6	Х7
		FS Mgt. L&WCF Fee	Concession Fee	Close	FS Mg Non-f	it.	Concess No Wat	ion	FS Mgt. Add Water	Concession Add Water
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District Suplime Current Management Fee Non-Fee	Campground	Robbers Ro	ost	Units		(	5	PAO <sup>-</sup>	T Capacity	45	
Recommended Season   Number of Days   Recommended Fee   Non-Fee   X   X2   RVD Use   S.200		District	Sulphui		Unit Days		7	92	Man	and Coacon	1120 -31,5
Recommended Fee 4 2 X3 X6 X6 X7 Concession FS Mgt. LawCF Fee Close Close Non-fee No Water Add Wa						Season	6/20	1-0/15	Fee	s Collected	
Non-fee		Fee			Number of Da	ys	1 8	8	RVD	lise	5 700
Permit Adm   Concession   FS Mgt.   Concession   Row Mater   Add Water   Add W		Non-Fee					4	4			21200
L&WCF Fee   Fee   Close   Non-fee   No Water   Add Water   Add Water			X1 FS Mat		Х3	K4	+		ion	X6 ES Mat	X7
Tons Water   Ti,389			L&WCF Fee		Close	Non-f	ee			Add Water	Add Water
Permit Adm		O & M Coot							-		
Permit Adm  Permit Adm  Cons Water  Rehab Cost  Clos Cost  1,389  Elawce  Lawce  Lawce  1,250	_	U & M COSCI				2,02		0		7,500	-
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Cons Water  Rehab Cost  Clos Cost  9,395		Permit Adm						IDE			
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	Campground	St. Lacis C	reely	Units		1	8	PAO	T Capacity	90
	District	Sulphur		Unit Days		1,6	274	Man	aged Season	6/15-9/15
	Current Man	A*************************************		Recommended	Season	6/15	- 915	Fee	aged Season s Collected	1
	Fee			Number of Da	VS	- W	5.3	RVD	Use	14 200
	Non-Fe	e <u>X</u>		Recommended		-\$ 2	1			
		X1 FS Mgt.	X2 Concession	Х3	FS Mg	1+	X5 Concess	ion	X6 FS Mgt.	X7 Concession
		L&WCF Fee	Fee	Close	Non-	fee	No Wat	er	Add Water	Add Water
	0 & M Cost				5,62	112			8,600	
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	Campground	Daniel	(,	Units			12	DVU.	T Capacity	110
				Unit Days			354		aged Season	
		Sulphum			·	11	234			dio- Ma
	Current Mana Fee	agement		Recommended Number of Da	Season <sub>-</sub>	611-	9/15		s Collected	
	Non-Fe	e		Recommended	Fee	A,	4	RVD	Use	8,300
		X1	X2	Х3	Х4	1	Х5		Х6	Х7
		FS Mgt. L&WCF Fee	Concession	Close	FS Mgt		Concess		FS Mgt.	Concession
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9	Cons Water						1		14,000	
Ono Timo	Rehab Cost				2,34	48			2,348	
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	Clos Cost			16,782			~			
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	Concession						-			1.
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	Campground	Sawnide (	iceleh	Units	<u> </u>	S PAC	T Capacity	25
	District	Sulplum		Unit Days	5	35 Mar	naged Spacen	(-lin-10/20)
	Current Man			Decommended	Soason /ali	alus For	s Collected	ofto 10120
	Fee			Number of Da	ys 10	773	s corrected	1 612
	Non-Fe	e _ X		Recommended ! Number of Day Recommended	Fee \$4	RVL	Use	6,800
		X1	X2	Х3	X4	X5	X6	X7
		FS Mgt.	Concession	Close	FS Mgt.	Concession	FS Mgt.	Concession
		L&WCF Fee	Fee	Crose	Non-fee	No Water	Add Water	Add Water
	0 & M Cost	The state of the s			1,567	7	7,389	
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Campground District	Selyhou	(1000)	Units Unit Days			380		T Capacity aged Season	100 Gl = 1015
			Recommended	Coacon	class	280	Fac	s Collected	61.10/12
Current Mana Fee	gement		Number of Da	vs	3/20	0-9/15	ree		A 1
Non-Fee	X		Recommended	Fee	\$ 5		RVD	Use	14,600
	X1	Х2	Х3	X4		Х5		Х6	Х7
	FS Mgt.	Concession	Close	FS Mg Non-f	gt.	Concess		FS Mgt.	Concessio
	L&WCF Fee	Fee	Crose			No Wat	er	Add Water	Add Water
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# APPENDIX II RIM FACILITY CONDITION RECORD FORM 2300-6

# RIM FACILITY-CONDITION RECORD

AS OF\_\_\_\_\_

BLOCK	A				5 1	TE	C	R		A	RE	A		TI	DI	E 1	II	IT	Y						-
DOC.NO.	SERIAL N	O.		NAME						NO.			KIN	ND			REGIO	N		FO	REST		RANGE	RDISTRICT	
(1-2)	(3-9)																				,				
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BLOCK	В			S	ITE	0	R	A	R	E A	R	E	Q	U	T	R	E M	E	N T	T S					
CALD			DMINISTRATION COS	TS			CLEANL		STS										F	RESOURCE	TREATME				
(10-11)		AMT, VIS	AMT, FEE SYSTEM		AMT. OTHER	-		TAL \$		1	TY			-		STAL \$		-	TY	PE	-	TOTAL \$	TYPE	TOTAL \$	_
. 1	(12-19)	(20-22)	(23-25)	(26-28)	(29-31)	- 11	(32	2-39)		ii .	(40-	431			(	44-51)			(52-	-55)	1	(55-63)	(64-67)	(68-75)	

IRD	FACILITY DESCRIPTION		S	0	TOTAL					C O	N I	)	T	0	N	C	L A	S	S E	5		
0.	FACILITY DESCRIPTION NAME UNIT OF MEASURE FAC. (1)		LR	W	EXISTING	1-SA	TISFAC	TORY	2-SUBST	ANDARD	3-HEAV		4- RE	PLACE	CARD NO.	5- REPLACE OTHER KIND	6- NON-EX	STING	7- NON	EXISTING ADD	8-ELIMI	INATE
	UNIT OF MEASURE FAC.	ODE	OE	E	INVENTORY	QUANTI	TY /	COST(S)	QUANTITY	ZCOST (S)	QUANTITY	/cost (\$)	QUANTITY	ZCOST (S)		QUANTITY / COST (S)	QUANTITY /C	OST (\$)	QUANTITY	COST (S)	QUANTITY /	COSTIS
111	(12	14)	(15-16)	(17)	(18)	(19-24)		(25-32)	(33-38)		(47-52)	(53-60)	QUANTITY (61-66)	(67-74)	(10-11)	(12-17) (18-25)	(26-31)	32-39)	(40-45)	(46-53)	(54-59)	(60-67)
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#### APPENDIX III

#### ALLOCATION

Below are instructions for interpreting the coding found on the following computer printout sheets:

Campgrounds are listed by name under the heading, Analysis Area.

Current management practices are shown under the Condition Class heading.

Under the Management Intensity heading are the management practices selected by the model.

The time period during which a practice is implemented is found under the Period heading.

Management Practices are coded:

- X1 Forest Service Management with L&WCF fee
- X2 Concessionaire operation
- X3 Campground closure
- X4 Forest Service non-fee management
- X6 Water system constructed and managed under Forest Service fee
- X7 Water system constructed with concessionaire operation

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•	PRSC NUMB	LEVEL1 LEVEL2		WORKING GROUP		COND				MANAGEMENT F INTENSITY IMP		AREA
~		ANALYSIS	AREA	1								
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_		ANALYSIS	AREA	2	20-20-2					ANALYSIS ARE	A TOTAL	1.000
	5	CUT BY ALL L2	ALL L3	ALL	ALL	X4	S	1	ALL	X7	1	1.000
		ANALYSIS	AREA	3						ANALYSIS ARE	A TOTAL	1.000
**	3	ARAP B ALL L2	ALL L3	ALL	ALL	X 1	S	1	ALL	X2	1	1.000
1088		ANALYSIS	AREA	4						ANALYSIS ARE	A TOTAL	1.000
,	4	WILCRK ALL L2	ALL L3	ALL	ALL	X 1	S	1	ALL	X2	1	1.000
		ANALYSIS	AREA	5						ANALYSIS ARE	A TOTAL	1. 000
	5	GRN RG ALL L2	ALL L3	ALL	ALL	X 1	S	1	ALL	X5	1	1.000
		ANALYSIS	AREA	6						ANALYSIS ARE	A TOTAL	1.000
-	6	KELDAL ALL L2	ALL L3	ALL	ALL	X 1	s	1	ALL	X5	2	1.000
•		ANALYSIS	AREA	7						ANALYSIS ARE	A TOTAL	1.000
	7 ,	COLD S ALL L2	ALL L3	ALL	ALL	X 1	5	1	ALL	X2	2	1.000
		ANALYSIS				A 40				ANALYSIS ARE	A TOTAL	1.000
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•	(LPCOL	5)				NALYSIS	AREA	ACREA	GE			
•	PRSC NUMB	LEVEL1 LEVEL2		WORKING GROUP		COND CLASS	LAND	AGE	MANAGEMENT EMPHASIS	MANAGEMENT INTENSITY		AREA
•		ANALYSIS	AREA	9						ANALYSIS	AREA TOTAL	1.000
•	9	AUSL W ALL L2	ALL L3	ALL	ALL	X 1	S	- 1	ALL	X2	2	1.000
		ANALYSIS	AREA	10						ANALYSIS	AREA TOTAL	1.000
•	10	KEL FL ALL L2	ALL L3	ALL	ALL	X 1	5	1	ALL	XS	2	1.000
•		ANALYSIS	AREA	11						ANALYSIS	AREA TOTAL	1.000
•	11	DOWD S ALL L2	ALL L3	ALL	ALL	X 1	S	1	ALL	X5	2	1.000
•		ANALYSIS		12						ANALYSIS	AREA TOTAL	1.000
	12	WEST L ALL L2	ALL L3	ALL	ALL	X 1	S	1	ALL	X2	2	1.000
		ANALYSIS	AREA	13						ANALYSIS	AREA TOTAL	1.000
•	13	BELAIR ALL L2	ALL L3	ALL	ALL	X 1	5	1	ALL	X2	2	1.000
•		ANALYSIS	AREA	14						ANALYSIS	AREA TOTAL	1.000
•	14	DOMD M ALL L2	ALL L3	ALL		X1	5			XZ	2	1.000
		ANALYSIS	AREA	15						ANALYSIS	AREA TOTAL	1.000
	15	OLIVE ALL L2	ALL L3	ALL	ALL -	X1	S	1	ALL	X2	2	1.000
•		ANALYSIS	AREA	16						ANALYSIS	AREA TOTAL	1.000

X7

2 1.000

16 CMP DK ALL L2 ALL L3 ALL ALL X4 S 1 ALL

RW PAGE 9

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_	PRSC NUMB	LEVEL1 LEVEL2		JORKING GROUP		COND CLASS	LAND TYPE	AGE		MANAGEMENT INTENSITY IM	PERIOD PL /HAR	AREA
-										*****	E4 70741	
w		ANALYSIS	AREA	17						ANALYSIS AR	EA TUTAL	1.000
	17	PEACE ALL L2	ALL L3	ALL	ALL -	X4	8	1	ALL	X7	2	1.000
•		ANALYSIS	AREA	18						ANALYSIS AR	EA TOTAL	1.000
-	18	TUN RF ALL L2	ALL L3	ALL	ALL	X 4	5	1	ALL	X7	2	1.000
,		ANALYSIS	AREA	19						ANALYSIS AF	EA TOTAL	1.000
d	19	CHAM L ALL L2	ALL L3	ALL	ALL	X4	S	1	ALL	X7	5	1.000
,		ANALYSIS	AREA	20						ANALYSIS AF	EA TOTAL	1.000
	20	NARRWS ALL L2	ALL L3	ALL	ALL	X4	S	1	ALL	хз	1	1.000
200										ANALYSIS AR	EA TOTAL	1.000
		ANALYSIS		*								
	21	TOMBEN ALL L2	ALL L3	ALL	ALL	X 4	S	1,	ALL	ХЗ	1	1.000
·		ANALYSIS	AREA	22						ANALYSIS AR	EA TOTAL	1.000
,	22	CLEARL ALL L2	ALL L3	ALL	ALL	X4	S	1	ALL	хз	1	1.000
_		ANALYSIS	AREA	23						ANALYSIS AR	EA TOTAL	1.000
	23	SKYLN ALL L2	ALL L3	ALL	ALL	X4	S	1	ALL	ХЗ	** <b>1</b> * *	1.000
		ANALYSIS	AREA	24						ANALYSIS AF	EA TOTAL	1.000
-	24	EGGARS ALL L2	ALL L3	ALL	ALL	X4	S	1	ALL		1	1.000

•	(LPCOLS	5)			Al	NALYSIS	AREA A	CREA	GE				1	R
•	PRSC NUMB	LEVEL1 LEVEL2		WORKING GROUP	LAND CLASS	COND	LAND TYPE	AGE	MANAGEMENT EMPHASIS	MANAGEMENT INTENSITY		/HAR	AREA	
		ANALYSIS	ADEA	25						ANALYSIS	AREA	TOTAL	1.000	
•	25	UP LND ALL L2			ALL	X4	S	1	ALL	хз		1	1.000	
		ANALYSIS	AREA	26						ANALYSIS	AREA	TOTAL	1.000	
	26	STOV P ALL L2			ALL	X4	S	1	ALL	ХЗ		1	1.000	
		ANALYSIS	AREA	27						ANALYSIS	AREA	TOTAL	1.000	
	27	TUN EP ALL L2	ALL L3	ALL	ALL	X 4	S	1	ALL	хз		1	1.000	
		ANALYSIS	AREA	28						ANALYSIS	AREA	TOTAL	1.000	
	28	STEVEG ALL L2	ALL L3	ALL	ALL	X 4	S	1	ALL .	хз		1	1.000	
		ANALYSIS	AREA	29						ANALYSIS	AREA	TOTAL	1.000	
	29	BIG SO ALL L2	ALL L3	ALL	ALL	X4	s	1	ALL	ХЗ		1	1.000	
		ANALYSIS	AREA	30						ANALYSIS	AREA	TOTAL	1.000	
	30	BYERS ALL L2	ALL L3	ALL	ALL	X4	S	1	ALL	хз		1	1.000	
		ANALYSIS	AREA	31						ANALYSIS	AREA	TOTAL	1.000	
	31	MDWCRK ALL L2	ALL L3	ALL -	ALL	X4	S	1	ALL				1.000	
		ANALYSIS	AREA	32						ANALYSIS	AREA	TOTAL	1.000	
	35	ASP GL ALL L2	ALL L3	ALL	ALL	X4	5	1	ALL	ХЗ		1	1.000	

RW PAGE 11

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,	(LPCOL					NALYSIS			GE					RW PAGE	12
,	PRSC NUMB	LEVEL1 LEVEL2		GROUP	CLASS	COND	TYPE	AGE	EMPHASIS	MANAGEMENT INTENSITY			AREA		
-										ANALYSIS	ADEA	TOTAL	1.000	,	
		ANALYSIS	AREA	33						HINETOIS	HILL	TOTAL	1. 000		
	33	GRND V ALL L2	ALL L3	ALL	ALL	X4	5	1	ALL	ХЗ		1	1.000	)	
-				-						ANALYSIS	AREA	TOTAL	1.000	)	
		ANALYSIS													
	343	SAWMIL ALL L2	ALL L3	ALL	ALL	X4	S	1	ALL	X3			1.000		
•		ANALYSIS	AREA	35						ANALYSIS	AREA	TOTAL	1.000	)	
_	353	TABNSH ALL L2	ALL L3	ALL	ALL	X4	5	1	ALL	хз		1	1.000	)	
		ANALYSIS								ANALYSIS	AREA	TOTAL	1.000	)	
	363	MISHKA ALL L2	ALL L3	ALL	ALL	X 4	S	1	ALL	XЗ		1	1.000	)	
•		ANAL VETE	ADEA	27						ANALYSIS	AREA	TOTAL	1.000	)	
_	272														
	373	INDMDW ALL L2	ALL L3	ALL	ALL	X 4	S	1	ALL	ХЗ		1	1.000		
•		ANALYSIS									AREA		1.000	)	

ANALYSIS AREA 39 394 ROB RT ALL L2 ALL L3 ALL -- ALL -- X4 -- - - A -- 1 -- ALL -- X4 1 1.000 ANALYSIS AREA TOTAL 1.000 ANALYSIS AREA 40

1.000

1.000

1.000

ANALYSIS AREA TOTAL

X4 1

384 IDLE M ALL L2 ALL L3 ALL ALL X4 A 1 ALL

404 STLOUI ALL L2 ALL L3 ALL ALL X4 A 1 ALL

•														
•	PRSC NUMB	LEVEL1 LEVEL2		WORKING GROUP		COND	LAND TYPE	AGE	MANAGEMENT EMPHASIS	MANAGEMENT INTENSITY	PER IMPL	IOD /HAR	A	REA
•										ANALYSIS	AREA	TOTAL	1.	000
•		ANALYSIS	AREA	41										
•	414	DENVER ALL L2	ALL L3	ALL	ALL	X 4	Α	1	ALL	X4		1	1.	000
		ANALYSIS	AREA	42						ANALYSIS	AREA	TOTAL	1.	000
•	426	CRDMOR ALL L2	ALL L3	ALL	ALL	X4	Α	1	ALL	х6		2	1.	000
•		ANALYSIS	AREA	43						ANALYSIS	AREA	TOTAL	1.	000
•	434	N FORK ALL L2	ALL L3	ALL	ALL	X 4	Α	1	ALL	X4		1	1.	000
•		ANALYSIS	AREA		7,17 xx=0					ANALYSIS	AREA	TOTAL	1.	000
	446	LONG D ALL L2	ALL L3	ALL	ALL	X4	Α	1	ALL .	XA		2	1.	000
•		ANALYSIS	AREA	45						ANALYSIS	AREA	TOTAL	1.	000
•	456	B BEND ALL L2	ALL L3	ALL	ALL	X 4	Α	1	ALL	х6		2	1.	000
•		ANALYSIS	AREA	46						ANALYSIS	AREA	TOTAL	1.	000
•	464	BUKHRN ALL L2	ALL L3	ALL	ALL	X4	Α	1	ALL	X4		1	1.	000
•		ANALYSIS	AREA	47						ANALYSIS	AREA	TOTAL	1.	000
	476	BRN PK ALL L2	ALL L3	ALL	ALL	X4	Α	1	ALL	X6		2	1.	000
•		ANALYSIS	AREA	48						ANALYSIS	AREA	TOTAL	1.	000
•	484	RAINBW ALL L2	ALL L3	ALL	ALL	X 4	Α	1	ALL	X4		1	1.	000

-	PRSC NUMB	LEVEL1 LEVEL2		ORKING GROUP			LAND TYPE	AGE	MANAGEMENT EMPHASIS	MANAGEMENT P	ERIOD _ /HAR	AREA
~												
J		ANALYSIS	AREA	49						ANALYSIS ARE	A TOTAL	1.000
	494	G PASS ALL L2	ALL L3	ALL	ALL -	X4	Α	1	ALL	X 4	1	1.000
•		ANALYSIS	AREA	50						ANALYSIS ARE	A TOTAL	1.000
-	504	PAWNEE ALL L2	ALL L3	ALL	ALL	X 1	Α	1	ALL	X 4	1	1.000
•		ANALYSIS	AREA	51						ANALYSIS ARE	TOTAL	1.000
<u>_</u>	514	GIZPAK ALL L2	ALL L3	ALL	ALL	X 1	Α	1	ALL	X4	1	1.000
		ANALYSIS	AREA	52						ANALYSIS ARE	TOTAL	1.000
	521	M CHI ALL L2				X 1	Α	1	ALL	X 1	1	. 602
<b>~</b>	524	M CHI ALL L2	ALL L3	ALL	ALL	X 1	Α	1	ALL	X 4	1	. 378
J		ANALYSIS	AREA	53	A1 17 (228)					ANALYSIS ARE	TOTAL	1.000
	534	ECHO L ALL L2	ALL L3	ALL	ALL	X 1	Α	1	ALL	X4	1	1.000
-				A 14050						ANALYSIS AREA	TOTAL	1.000
•		ANALYSIS							TO SOME IN THE			
	544	COLBIN ALL L2	ALL L3	ALL	ALL	X 1	Α	1	ALL	X4	1	1.000
•		ANALYSIS	AREA	55						ANALYSIS ARE	TOTAL	1.000
•	551	ELEPHT ALL L2	ALL L3	ALL	ALL	X1	Α	1	ALL	X1	1	1.000
		ANALYSIS	ADEA	E/						ANALYSIS ARE	TOTAL	1.000
•	561	CROW V ALL L2				V1	^		AL I	X1		1 000
-	301	ONOW V HEE LE	HLL LJ	ni_L	nce	^1	H	1	MLL	ANALYSIS AREA		1.000
										ACREAGE GRANI		56. 000
-										HOREHOE GRAIN	, ISINC	00.000